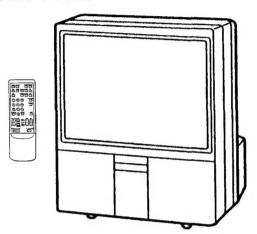
KP-46V15/46V16 KP-53V15/53V16/61V15

SERVICE MANUAL



US Model

KP-46V15 Chassis No. SCC-F19M-A KP-46V16 Chassis No. SCC-F19R-A KP-53V15 Chassis No. SCC-F19N-A KP-53V16 Chassis No. SCC-F19P-A KP-61V15 Chassis No. SCC-F19K-A

Canadian Model

KP-46V15 Chassis No. SCC-F23F-A KP-61V15 Chassis No. SCC-F23D-A

AP CHASSIS

MODELS OF TH	E SAME SERIES
KP-46V15/46V16	KP-41EXR96
KP-53V15/53V16/61V15	KPR-41EXR95
KP-46XBR25/53XBR25/61XBR28	KPR-46XBR15/53XBR15

SPECIFICATIONS

Structure Projection system Screen and projector, rear projection type 3 picture tubes, 3 lenses, horizontal in-line

Picture tube

7 inch high-brightness monochrome tubes (5.5 raster size), with optical coupling and

liquid cooling system

Projection lenses

Screen material

High performance, larger-diameter

hybrid lens F 10

Plastic lenticular, Plastic fresnel

Projected picture size

(in inches, measured diagonally)

Screen brightness (cd/m²)

Television system Channel coverage

Antenna

46 (KP-46V15/46V16) 53 (KP-53V15/53V16)

61 (KP-61V15)

1,600 (KP-46V15/46V16) 1,250 (KP-53V15/53V16)

900 (KP-61V15)

American TV standards

VHF: 2-13 UHF: 14-69

CABLE TV: 1-125

75- ohm external antenna terminal for VHF/UHF

- Continued on next page -

COLOR REAR VIDEO PROJECTOR SONY Input jacks VIDEO IN 1 Two-way coaxial speaker system Speaker S VIDEO IN (4-pin mini DIN) Woofer 130 mm (5 inches) diameter Y: 1 Vp-p, 75-ohms unbalanced, Tweeter 35 mm (1.4 inches) diameter sync negative 12W×2 Speaker output CENTER SPEAKER input 16 NORM. 30W MAX 50W C: 0.286 Vp-p (Burst signal) 75-ohms 120 V AC, 60 Hz Power requirements Video (phono jacks): 1 Vp-p, 75-ohms 310W (max) Power consumption unbalanced, sync negative 7W (standby mode) Audio (phono jacks): 1.029×1.287×543 mm Dimensions (w/h/d) 500 mVrms (100% modulation) $(405/8 \times 503/4 \times 211/2 \text{ inches})$ Impedance: 47 kilo-ohms (KP-46V15/46V16) VIDEO IN 2 and 3 1,164×1,336×651 mm Video (phono jacks): 1 Vp-p, 75-ohms $(457/8 \times 525/8 \times 253/4 \text{ inches})$ (KP-53V15/53V16) unbalanced, sync negative Audio (phono jacks): 1,337×1,490×780 mm 500 mVrms (100% modulation) $(525/8 \times 585/8 \times 3011/16 \text{ inches})$ Impedance: 47 kilo-ohms (KP-61V15) Output jacks MONITOR OUT 90 kg (198 lb 7 oz) (KP-46V15/46V16) Weight S VIDEO MONITOR OUT 92 kg (202 lb 7 oz) (KP-53V15/53V16) (4-pin mini DIN) 130 kg (286 lb 10 oz) (KP-61V15) Y:1 Vp-p, 75-ohms Remote Commander RM-Y115 (1) Supplied accessories unbalanced, sync negative with 2 size AA (R6) Video (phono jacks):1Vp-p, 75-ohms **EVEREADY** batteries unbalanced, sync negative U/V mixer EAC-66 Optional accessories Audio (phono jacks):500mVrms Connecting cable (100% modulation) **RK-74A** Impedance:10 kilo-ohms VMC-810S/820S AUDIO (VAR) OUT YC-15V/30V (phono jacks) VCR Tray SU-PJT1 More than 900mVrms (100% modulation) at the maximum volume setting (variable) Impedance:5kilo-ohms **AUDIO OUT** (phono jacks) 900mVrms (100% modulation) Impedance:5kilo-ohms

Design and specifications are subject to change without notice.

(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK A ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED INTHIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURTCIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

(ATTENTION)

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.

LE CHÁSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ Á L'ALIMENTATION SECTEUR.

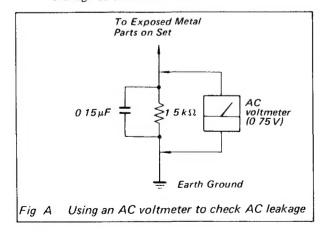
ATTENTION AUX COMPOSANTS RELATIFS ÁLA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE A SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES CONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

SAFETY CHECK-OUT (US Model Only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer

- Check the area of your repair for unsoldered or poorly-soldered connections Check the entire board surface for solder splashes and bridges.
- Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors
- Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators
- 4 Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair Point them out to the customer and recommend their replacement.
- 5 Look for parts which, though functioning, show obvious signs of deterioration Point them out to the customer and recommend their replacement
- 6 Check the line cord for cracks and abrasion Recommend the replacement of any such line cord to the customer
- 7 Check the condition of the monopole antenna (if any)
 Make sure the end is not broken off, and has
 the plastic cap on it. Point out the danger of
 impalement on a broken antenna to the
 customer, and recommend the antenna's
 replacement
- 8. Check the B+ and HV to see they are at the values specified Make sure your instruments are accurate, be suspicious of your HV meter if sets always have low HV
- Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.



LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments
- A battery-operated AC milliammeter The Data Precision 245 digital multimeter is suitable for this job
- 3 Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground, the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

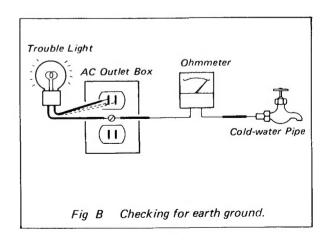


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The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.

SECTION 1 **GENERAL**

1-1. UNPACKING AND VIEWING AREA

Carefully follow the instructions on the outside of the packing carton to unpack the projection TV.

- . The supplied accessories are packed in the bottom of the carton. Be sure not to throw them away.
- . Keep the original carton and packing materials to safely transport the projection TV in the future.

Check to make sure that the following is included:

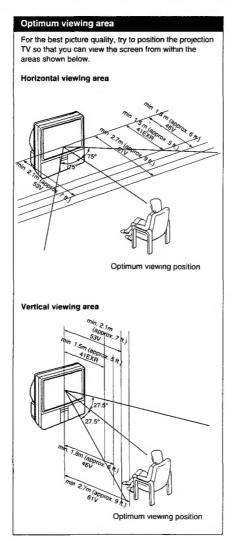
Universal Remote Commander RM-Y112A (1) (for KP-41EXR96) RM-Y115 (1) (for other models) with 2 size AA (R6) EVEREADY batteries

if the Remote Commander is missing, contact your dealer.

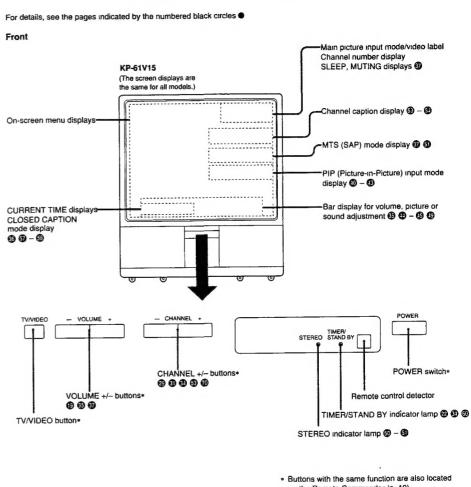
Place the projection TV in a cool, dry place where the ventilation openings at the sides are not blocked.

Plug the projection TV power cord into an AC 120 volt power outlet.

For further precautions, see p. 2.



1-2. LOCATING CONTROLS AND CONNECTORS

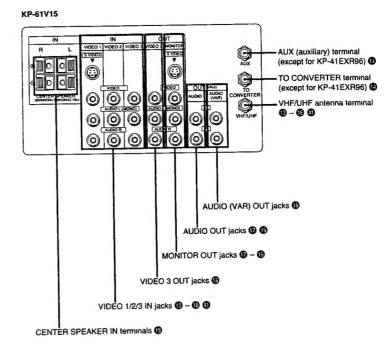


 Buttons with the same function are also located on the Remote Commander (p. 10).

Note

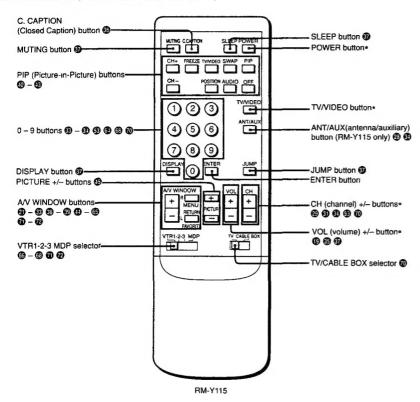
The instructions in this manual are based for the most part on operating the projection TV with the Remote Commander. You can also use the buttons on the projection TV that have the same function.

Rear



6

Remote Commander (with the video control cover closed)



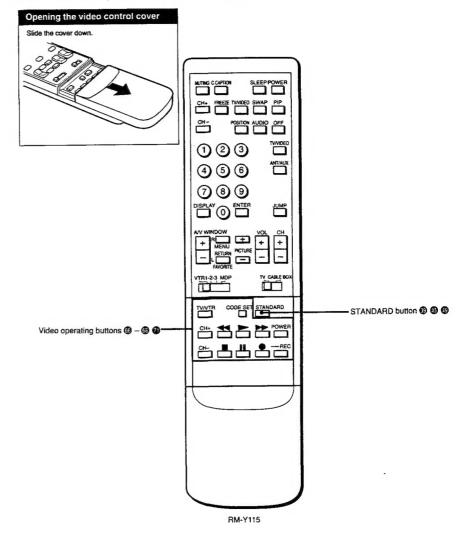
RM-Y112A: KP-41EXR96 RM-Y115: KP-46V15 KP-46V16

KP-53V15 KP-53V16 KP-61V15 Buttons with the same function are also located on the projection TV (p. 7).

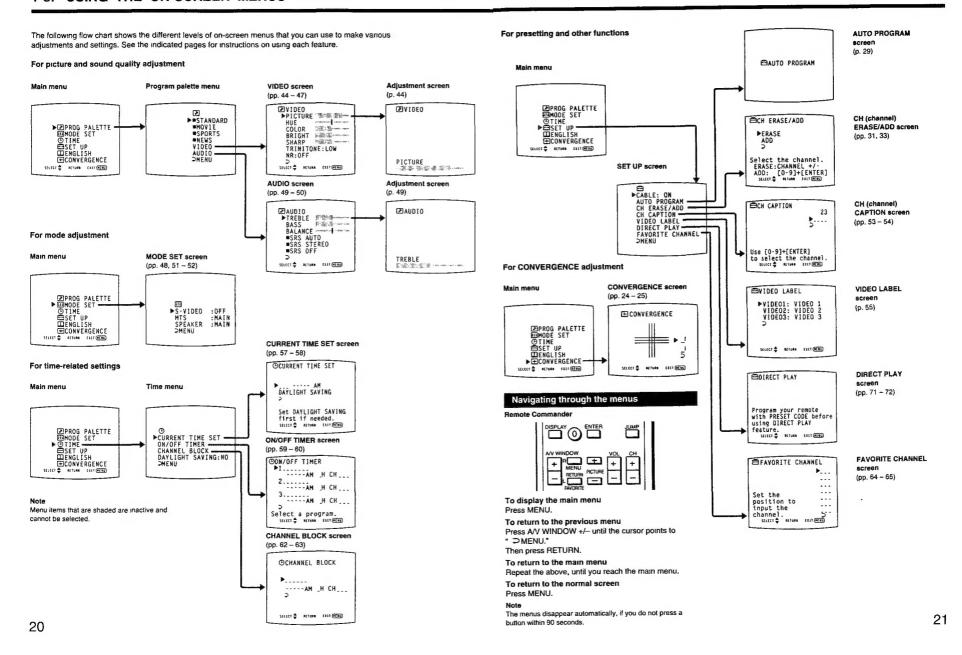
Note

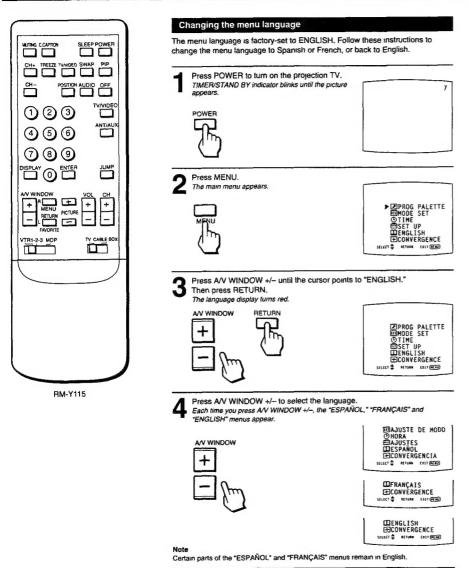
If the TV/CABLE BOX selector is set to CABLE BOX, the Remote Commander is able to control a connected cable box, not the projection TV (p. 70). Set the selector to TV to control the projection TV with the Remote Commander.

Remote Commander (with the video control cover open)



1-3. USING THE ON-SCREEN MENUS





5 Press RETURN.
The language is se The language is selected.

RETURN

To return to the normal screen. Press MENU.

Notes concerning menus

DSELECCION A/V

MAJUSTE DE MODO

OHORA

AJUSTES

DESPAÑOL

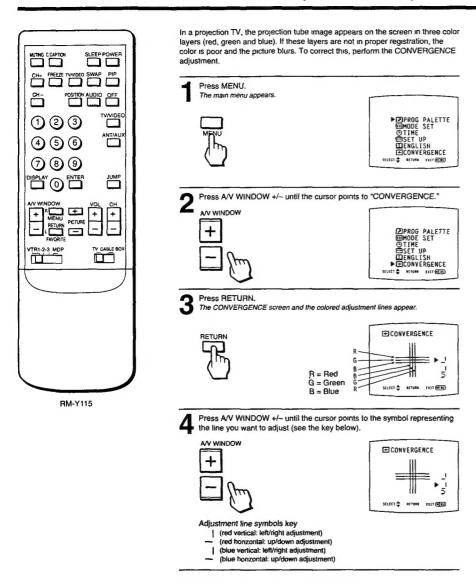
CHOVERGENCIA

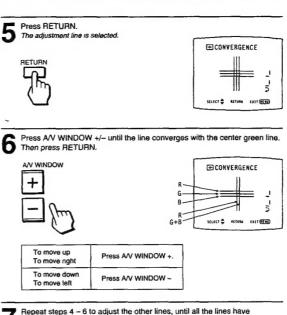
strtet & seines titt (Ein)

Spanish menu

- . During PIP (Picture-in-Picture) mode, the on-screen menus may overlap the window picture.
- . The menus disappear automatically, if you do not press a button within 90 seconds.

1-4. ADJUSTING COLOR REGISTRATION (CONVERGENCE)





To return to the previous menu

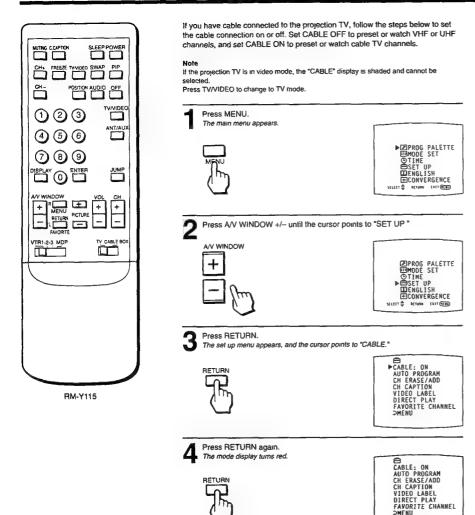
Press A/V WINDOW +/-- until the cursor
points to " ⊃ MENU."

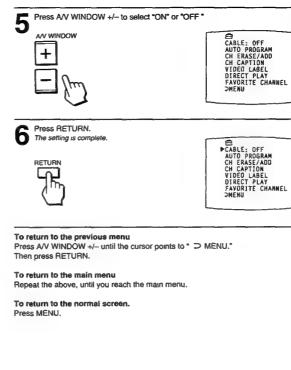
Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen. Press MENU.

Repeat steps 4 – 6 to adjust the other lines, until all the lines have overlapped to form a white cross.





Cable TV channel charte

Cable TV systems use letters or numbers to designate channels. To tune in a channel, refer to the chart below.

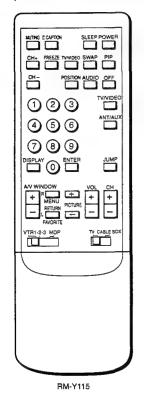
Number on this TV	Corresponding CATV channel
1	A-8
5	A-7
6	A-6
14	A
15	В
16	c
17	D
18	E
19	F
20	G
21	Н
22	ı
23	J
24	K
25	L
26	М
27	N
28	0
29	Р
30	a
31	R
32	S
33	Ť
34	U
35	V
36	W
37	W+1
38	W+2
39	W+3
•	•
•	:
:	:
93	W+57
94	W+58
95	A-5
96	A-4
97	A-3
98	A-2
99	A-1
	W+59
100	W+60
101	W+60 W+61
102	W+61
:	
•	•
:	:
123	W+82
124	W+83
125	W+84

Check with your local cable TV company for more complete information on the available channels.

 The designation of the cable TV channels conforms to the EIA/NCTA recommendation.

1-6. PRESETTING TV CHANNELS

By presetting TV channels to the projection TV, you can select channels by pressing CH (CHANNEL) +/- (You can select VHF channels ℙ − 13 without presetting.)



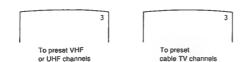
Presetting all receivable channels automatically

Follow these instructions to preset all the receivable VHF, UHF or cable TV channels to the projection TV.

Notes

- If the projection TV is in video mode, the "AUTO PROGRAM" display is shaded and cannot be selected. Press TV/NIDEO to change to TV mode.
- Perform auto programming during the day rather than late at night, when some channels may not be broadcasting.

 Set the cable connection on or off (pp. 26 – 27) to select the type of channel you want to preset, VHF/UHF or cable TV.



Press ANT/AUX to select the type of channel you want to preset, VHF/ UHF/regular cable TV, or pay cable TV connected to the AUX (auxiliary) terminal (except for KP-41EXR96).



Press MENU.
The main menu appears.



► 2PROG PALETTE

MMODE SET

OTIME

SET UP

DINGLISH

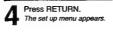
EDCONVERGENCE

SELECT ♦ METURA ELLIGER

Press AV WINDOW +/- until the cursor points to "SET UP"

AV WINDOW

PROG PALETTE
BMODE SET
OTIME
PERSET UP
BENGLISH
BEICONVERGENCE
SITUE \$ MIND ON BEICONVERGENCE





CABLE: ON
AUTO PROGRAM
CH ERASE/ADD
CH CAPTION
VIDEO LABEL
DIRECT PLAY
FAVORITE CHAMMEL
OMERU

Press AV WINDOW +/- until the cursor points to "AUTO PROGRAM."



CABLE: ON PAUTO PROGRAM CH ERASE/ADD CH CAPTION VIDEO LABEL DIRECT PLAY FAVORITE CHANNEL DMENU

Receivable channels for this projection TV

VHF: 2 - 13 UHF: 14 - 69 Cable: 1 - 125

To select TV channels without presetting
Press the 0 – 9 buttons and ENTER.

To return to the previous menu
Press AV WINDOW +/- until the cursor
points to " ⊃ MENU."
Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen. Press MENU.







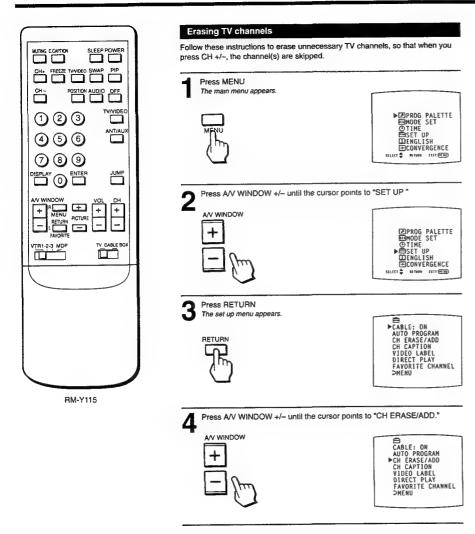
"AUTO PROGRAM" appears on the screen and receivable channels (other than the channels already preset) are preset in numerical sequence. The channels previously preset will not remain in the projection TV's memory.

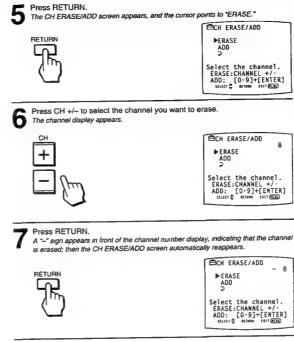
When no more channels are found, auto programming stops and the screen returns automatically to the set up menu.

Press CH +/- to check or view the preset channels.









To erase another channel Repeat steps ≣ ~ 7.

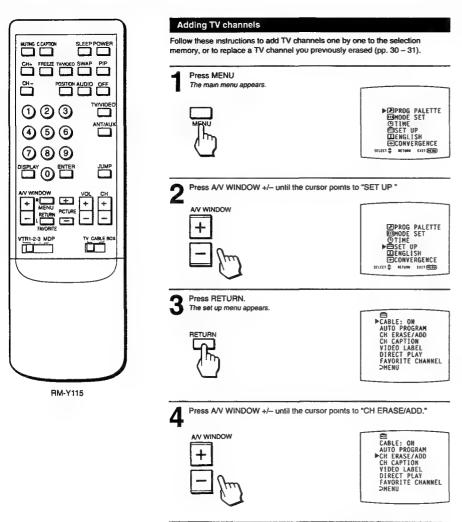
To return to the previous menu
Press AV WINDOW +/- until the cursor
points to " ⊃ MENU."
Then press RETURN.

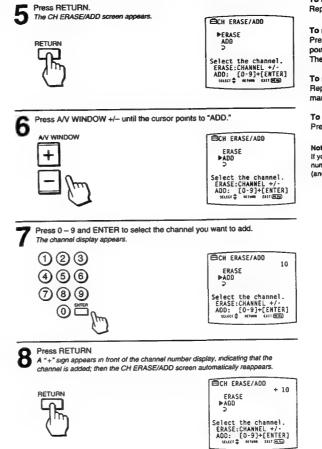
To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU.

Note

If you erase a VHF or UHF channel, the same number cable TV channel is also erased (and vice versa).





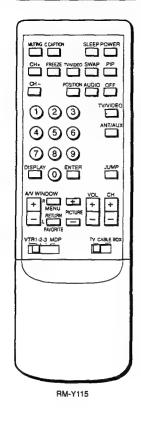
To add another channel Repeat steps 7 - 8.

To return to the previous menu Press AV WINDOW +/~ until the cursor points to " > MENU." Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

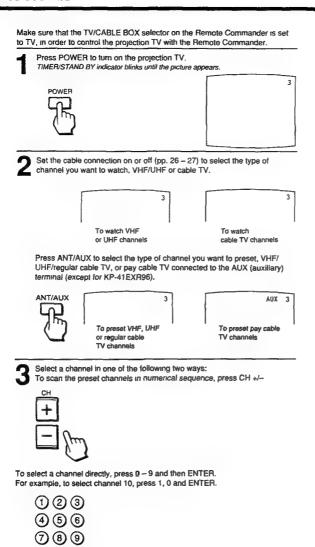
To return to the normal screen Press MENU.

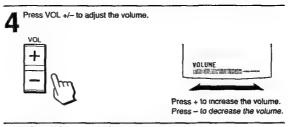
If you add a VHF or UHF channel, the same number cable TV channel is also added (and vice versa).



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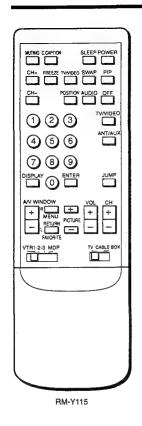
If VIDEO 1, VIDEO 2 or VIDEO 3 appears on the screen Press TV/VIDEO until a TV channel number appears. To select channels more easily Set FAVORITE CHANNEL (pp. 64 – 65). To turn off the projection TV

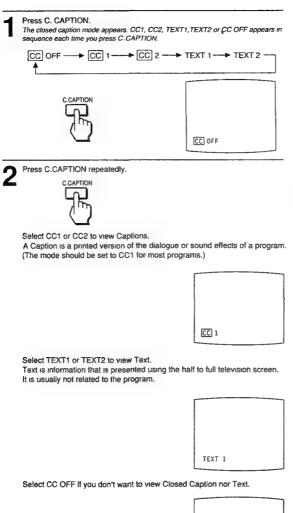
Press POWER.

1-8. USING CLOSED CAPTION

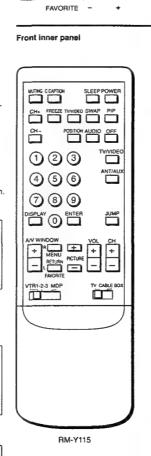
1-9. USING CONVENIENT FEATURES

Δ MENU

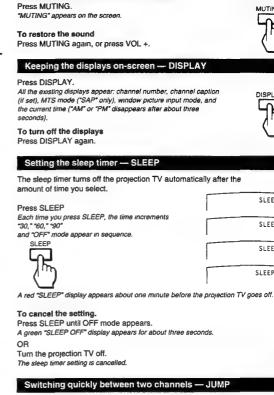




CC OFF



DEMO RETURN ▽



Muting the sound — MUTING

Use this function to keep track of two programs alternately.

To recall the channel you were watching previously Press JUMP

To switch back to the first channel Press JUMP again.



DISPLAY

SLEEP 30

SLEEP 60

SLEEP 90

SLEEP OFF

Previewing the features - DEMO

Press DEMO (front inner panel). Functions and menus are displayed one by one.

To restart DEMO from the beginning Press DEMO again.

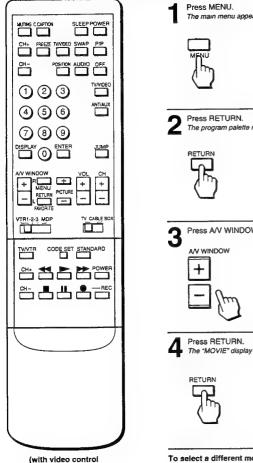
To stop DEMO Press any button.

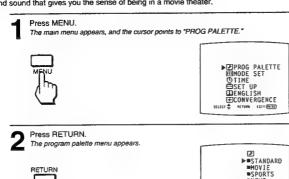


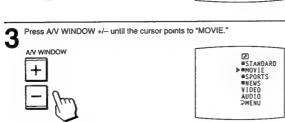
36

This projection TV features four modes (STANDARD, MOVIE, SPORTS, NEWS) that offer different picture and sound qualities. Choose the one that best suits the type of program that you want to watch.

Example: Select MOVIE mode for picture and sound that gives you the sense of being in a movie theater.









STANDARD ■MOVIE ■SPORTS MENU SMENU

VIDEO

To select a different mode Repeat steps 3 - 4.

Selecting standard mode (without using the menus)

Follow these instructions to select standard mode without using the on-screen menus.

Press STANDARD.

STANDARD

When you select STANDARD mode

You receive standard picture and sound quality. Any video or audio adjustments you made ("Adjusting the Projection TV," pp. 44 - 52) are cancelled and the original factory settings are restored.

When you select MOVIE mode

You receive a finely detailed picture, and a theatrical audio effect. To further adjust picture and sound qualities, follow the instructions on

When you select SPORTS mode

You receive a vivid, bright picture, and sound with a sports stadium effect. To further adjust picture and sound qualities, follow the instructions on pp. 44 - 52.

When you select NEWS mode

Picture noise is reduced, and you receive clear voice reproduction. To further adjust picture and sound qualities, follow the instructions on pp. 44 - 52.

To return to the previous menu Press A/V WINDOW +/- until the cursor points to " > MENU." Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

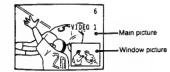
To return to the normal screen. Press MENU.

cover open) RM-Y115

1-11. WATCHING TWO PICTURES AT ONCE (PIP)

You can watch both the main picture and a window picture simultaneously, using the Picture-in-Picture (PIP) function.

KP-41EXR96 is equipped with one-tuner PIP. To watch two TV channels simultaneously, you must first connect a VCR to the projection TV, which will enable you to watch a second TV channel through the VCR tuner. (See "Connecting Other Equipment," pp. 15 -19.) Other models are equipped with two-tuner PIP, allowing you to watch two TV channels at once.



Picture-in-Picture special features

When watching the main picture and a window picture,

- · Swap the main and window pictures (SWAP).
- · Change the position of the window picture (POSITION).

The window picture sound is also output from the AUDIO (VAR)

OUT jacks. The AUDIO OUT and MONITOR OUT jacks output

. If you select a blocked channel in the window picture, the display "BLOCKED" appears with the window picture. (See "Setting

. The video label and channel caption will not appear with the

· Display a still picture (FREEZE).

the main picture sound only.

window picture even if you have set them.

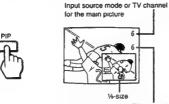
CHANNEL BLOCK," pp. 62 - 63.)

. Choose the sound from the main or window picture (AUDIO).

Displaying a window picture

SLEEP POWER MIJTING IL CAPTION CH+ FREEZE TV/VIDEO SWAP PIP

Press PtP to display a window picture



Input source mode or TV channel for the window picture





A window picture appears in the last mode you watched. Each time you press PIP, a 1/9 or 1/16 size window picture appears alternately.

To turn PIP function off

Press OFF

The window picture disappears.

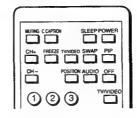
To receive the window picture sound Press AUDIO.

The) display appears for a few seconds, indicating that the window picture sound is being received.

To restore the main picture sound Press AUDIO again.

Changing the window picture input mode

Pernote Commander



Press PIP to display a window picture.





Press TV/VIDEO in the Picture-in-Picture control area to select the input mode. Each time you press TV/VIDEO, "TV," "VIDEO 1," "VIDEO 2" and "VIDEO 3" appear in sequence.

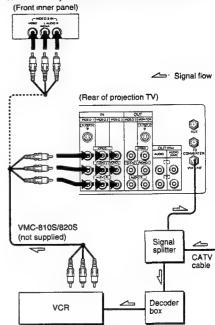




To change TV channels in the window picture Press CH +/- in the PIP control area.

Displaying CATV input as a window picture

To use Picture-in-Picture with pay cable TV input, make the connections to your cable converter box as shown below.



After making the above connections, turn the cable connection on by following the steps on pp. 26 - 27; then continue with the steps below.

Follow steps 1 - 2 in "Changing the window picture input mode" on this page to select the video input mode for your connected VCR.

Put your VCR on an inactive channel (channel 3 or 4).

Change pay cable TV channels with the decoder box.

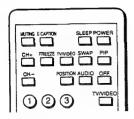
To control your cable converter box with the supplied Remote Commander See p. 70.

Notes

Changing the position of the window picture

Follow these instructions to change the position of the window picture on the screen.

Remote Commander



Press PIP to display a window picture.





Press POSITION.

Each time you press POSITION, the window picture moves as illustrated.





Displaying a still picture

Use the FREEZE function to display a still picture. This function is useful when you want to write down a recipe from a cooking program, a displayed address or phone number and so on.

Remote Commander



Press PIP to display a window picture.





Press FREEZE.

The window picture image remains still on the screen.



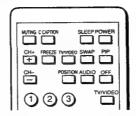


To restore the normal picture Press FREEZE again.

Swapping the main and window pictures

Follow these instructions to swap the input signals of the main and window pictures.

Remote Commander



Press PIP to display a window picture.





Press SWAP
Each time you press SWAP the images from the main and window pictures switch places.





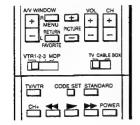
1-12. ADJUSTING THE PROJECTION TV

You can adjust the picture and sound for each input mode (TV, VIDEO 1, VIDEO 2, VIDEO 3) by pressing TV/VIDEO on the projection TV or on the Remote Commander to select the input mode, before making the adjustments. These adjustments are retained in memory even when you turn off the projection TV, but are cancelled after you change the adjustments, or select a picture and sound mode (pp. 38 – 39).

Adjusting the picture

Follow these instructions to adjust PICTURE, HUE, COLOR, BRIGHT (brightness) and SHARP (sharpness).

Remote Commander (with video control cover open)



Press MENU.

The main menu appears, and the cursor points to "PROG PALETTE."



Press RETURN.
The program palette menu appears.



Press A/V WINDOW +/- until the cursor points to "VIDEO."

Press RETURN.
The VIDEO screen appears.



Press A/V WINDOW +/- until the cursor points to the item you want to adjust.



Press A/V WINDOW +/- to make the adjustment.

Picture quality	Press A/V WINDOW -	Press A/V WINDOW +
PICTURE	For decreased picture contrast with soft color	For increased picture with vivid color
HUE	Skin tones become purplish	Skin tones become greenish
COLOR	For less color intensity	For more color intensity
BRIGHT	For less brightness	For more brightness
SHARP	For less sharpness	For more sharpness

Press RETURN.

The adjustment is complete, and the VIDEO screen automatically reappears.



To adjust other items

Repeat steps 5 - 8.

To restore the factory settings for all the items Select "STANDARD" on the program palette menu, and press RETURN;

or, press STANDARD on the Remote Commander.
All the items, including TRINITONE (p. 46) and NR (p. 47) return to their original factory settings.

To adjust picture contrast

You can also adjust picture contrast with the PICTURE +/- buttons on the Remote Commander.



Press + to increase picture contrast with vivid color. Press - to decrease picture contrast with soft color. The picture adjustment screen appears.

To return to the previous menu

Press A/V WINDOW +/- until the cursor points to " ⊃ MENU."

Then press RETURN.

To return to the main menu

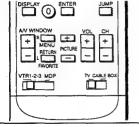
Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU.

Setting the TRINITONE mode

Color picture tubes are usually manufactured with a fixed color temperature (tint) that determines the "warmth" (red tint) or "coolness" (blue tint) of the picture. Use the Sony Trinitone feature to adjust the picture color to your preference.

Remote Commander



Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE."

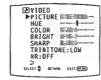


Press RETURN.
The program palette menu appears.



Press A/V WINDOW +/- until the cursor points to "VIDEO."

Press RETURN.
The VIDEO screen appears.



5 Press A/V WINDOW +/- until the cursor points to "TRINITONE."

6 Press RETURN.
The mode display turns red.

Press A/V WINDOW +/- to select "HIGH" or "LOW."

Select "HIGH" to make the picture cool (bluish).

Select "LOW" to make the picture warm (reddish).

8 Press RETURN.
The setting is complete

To return to the previous menu

Press A/V WINDOW +/- until the cursor points to " ⊃ MENU."

Then press RETURN.

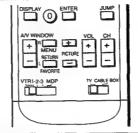
To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU.

Setting NR (picture noise reduction) ON or OFF

Follow these instructions to reduce picture noise.

Remote Commander



Press MENU.

The main menu appears, and the cursor points to "PROG PALETTE."



Press RETURN.
The program palette menu appears.



Press A/V WINDOW +/- until the cursor points to "VIDEO."

Press RETURN.

The VIDEO screen appears.

Press AV WINDOW +/- until the cursor points to "NR."



Press RETURN.
The mode display turns red.

Press A/V WINDOW +/- to select "ON" or "OFF"

Select "ON" to reduce picture noise.

Select "OFF" to restore the normal picture.

Press RETURN.
The setting is complete.

To return to the previous menu

Press AV WINDOW +/- until the cursor points to

□ MENU."

Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU.

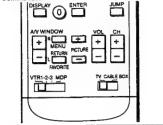
Setting S-VIDEO ON or OFF

Follow these instructions to set S-VIDEO on or off, depending on the kind of video equipment you have connected to the projection TV. For instructions on connecting video equipment, see pp. 15 - 18.

Note

If the projection TV is in TV, VIDEO 2 or VIDEO 3 mode, the "S-VIDEO" display is shaded and cannot be selected. Press TV/VIDEO on the projection TV or on the Remote Commander to change to VIDEO 1 mode.

Remote Commande



Press MENU. The main menu appears.



Press A/V WINDOW +/- until the cursor points to "MODE SET."

Press RETURN. The mode set menu appears, with the cursor pointing to "S-VIDEO."

PS-VIDEO :OFF MTS :MAIN SPEAKER :MAIN

Press RETURN. The mode display turns red.

5 Press AV WINDOW +/- to select "ON" or "OFF"

Press RETURN. The setting is complete.

To return to the previous menu Press A/V WINDOW +/- until the cursor points to " > MENU." Then press RETURN.

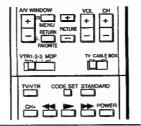
To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU.

Adjusting the sound

Follow these instructions to adjust the TREBLE, BASS and BALANCE.

Remote Commander (with video control cover open)



Press MENU.

The main menu appears, and the cursor points to "PROG PALETTE."



Press RETURN. The program palette menu appears.



Press A/V WINDOW +/- until the cursor points to "AUDIO."

Press RETURN. The AUDIO screen appears.



Press A/V WINDOW +/- until the cursor points to the item you want to adjust.

6 Press RETURN.
The adjustment screen appears.



Press A/V WINDOW +/- to make the adjustment.

Sound quality	Press A/V WINDOW -	Press A/V WINDOW +
TREBLE	To decrease the treble response	To increase the treble response
BASS	To decrease the bass response	To increase the bass response
BALANCE	To emphasize the left speaker's volume	To emphasize the right speaker's volume

Press RETURN.
The adjustment is a The adjustment is complete, and the AUDIO screen automatically reappears.



To adjust other items Repeat steps 5 - 9.

To restore the factory settings for all the items Select "STANDARD" on the program palette menu, and press RETURN; or, press STANDARD on the Remote Commander.

All the items, including SRS mode (p. 50) return to their original factory settings.

To return to the previous menu Press A/V WINDOW +/- until the cursor points to " > MENU." Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU.

Selecting an SRS (Sound Retrieval System) mode

For lifelike sound reproduction, follow the instructions below to select the SRS mode you prefer.

In SRS AUTO mode, SRS functions in both monaural and stereo modes.

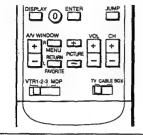
Monaural sound programs will have a 'simulated stereo' effect.

In SRS STEREO mode, SRS functions only when a stereo program is received.

The STEREO lamp on the TV lights up whenever a stereo broadcast is received.

Select SRS OFF mode to return to normal sound mode.

Remote Commande



Press MENU.
The main menu appears, and the cursor points to "PROG PALETTE"

▶ ☑PROG PALETTE

□MODE SET

© TIME
□SET UP
□CENGLISH
□CONVERGENCE
SILLT \$ 411444 LATICE

Press RETURN.
The program palette menu appears.



Press A/V WINDOW +/-- until the cursor points to "AUDIO."

Press RETURN.
The AUDIO screen appears.



5 Press A/V WINDOW +/- until the cursor points to the SRS mode you want.

6 Press RETURN.
The mode is selected.

To change the SRS mode Repeat steps 5 – 6.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to

□ MENU."
Then press RETURN.

To return to the main menu.
Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU.

Selecting an MTS (Multichannel TV Sound) mode

Follow these instructions to select an MTS mode.

Select MAIN mode to listen to stereo sound.

The STEREO lamp on the projection TV lights up whenever a stereo broadcast is received.

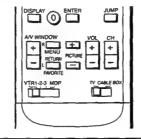
Select SAP mode to listen to Second Audio Programs. Select MONO mode to eliminate excessive noise during stereo broadcasts, caused by a weak incoming signal.

Note

If the projection TV is in video mode, the "MTS" display is shaded and cannot be selected.

Press TV/VIDEO on the projection TV or on the Remote Commander to change to TV mode.

Remote Commander



Press MENU.
The main menu appears.



Press A/V WINDOW +/- until the cursor points to "MODE SET."



Press A/V WINDOW +/- until the cursor points to "MTS."

Press RETURN.
The mode display turns red.

Press AV WINDOW +/- to select the mode you want. Each time you press AV WINDOW +/-, "MAIN," "SAP" and "MONO" appear in sequence.

Press RETURN.
The mode is selected.

To return to the previous menu

Press AV WINDOW +/- until the cursor points to

□ MENU."

Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

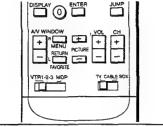
To return to the normal screen Press MENU. 24

1-13. CUSTOMIZING THE SCREEN DISPLAY

Setting SPEAKER — MAIN or CENTER

Follow these instructions to set SPEAKER to "CENTER" when you connect an audio system (p.19), and to "MAIN" when you want to listen to the sound from the projection TV speakers.

Remote Commander

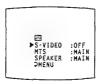


Press MENU.
The main menu appears.



Press AV WINDOW +/- until the cursor points to "MODE SET."

Press RETURN.
The mode set menu appears.



Press AV WINDOW +/- until the cursor points to "SPEAKER."

Fress RETURN.

The mode display turns red.

6 Press A/V WINDOW +/- to select "MAIN" or "CENTER."

Press RETURN.
The setting is complete.

To return to the previous menu
Press A/V WINDOW +/- until the cursor points to

" > MENU."
Then press RETURN.

To return to the main menu

Repeat the above, until you reach the main menu.

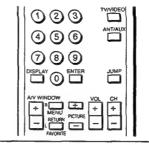
To return to the normal screen Press MENU.

Setting channel captions — CH CAPTION

Follow these instructions to caption each channel number display with a name, for instance, the television station call letters. (You can set up to four letters or numbers).

Example: Caption channel 15 as "NBC."

Remote Commander



Press MENU.
The main menu appears.



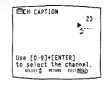
Press AV WINDOW +/- until the cursor points to "SET UP"

3 Press RETURN.
The set up menu appears.



Press AV WINDOW +/- until the cursor points to "CH CAPTION."

Press RETURN.
The CH CAPTION screen appears.



Press CH +/-, or press 1, 5 and ENTER to set channel "15."



Press RETURN.
The first caption space turns red.

Press A/V WINDOW +/- to select "N."

Each time you press A/V WINDOW +/-, "0" - "9," "A" - "Z,"

"8," "/," "-" and "_" (blank space) appear in sequence.

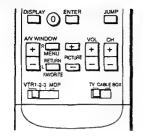


Press RETURN.
The second caption space turns red.

(Continued)

Setting channel captions - CH CAPTION (Cont'd from prev. page)

Remote Commander



Press A/V WINDOW +/-- to select "B."



Press RETURN.
The third caption space turns red.

Press AV WINDOW +/- to select "C."



Press RETURN.

The fourth caption space turns red.

Press A/V WINDOW +/- to select a blank space.



15 Press RETURN.
The setting is complete.
When you select or display the channel number, the channel caption also appears.

To caption more channels Repeat steps 6 – 15.

To erase unnecessary captions

Display the CH CAPTION screen, select the channel with the caption you want to erase, and select blank spaces for the channel caption; then press RETURN.

The caption for that channel is erased.

To return to the previous menu
Press AV WINDOW +/- until the cursor points to

□ MENU."
Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU.

Note

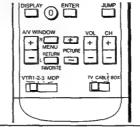
You can set up to 32 channel captions. If the memory is full, "The memory is full, sorry" appears on the screen. Erase any unnecessary captions, and begin again.

Setting VIDEO LABEL

Follow these instructions to label each input mode, in order to identify the equipment connected to each input terminal.

Example: Label VIDEO 1 IN as "VHS."

Remote Commande



Press MENU.
The main menu appears.



Press A/V WINDOW +/- until the cursor points to "SET UP"

Press RETURN.
The set up menu appears.



Press A/V WINDOW +/- until the cursor points to "VIDEO LABEL."

Press RETURN.
The VIDEO LABEL screen appears.



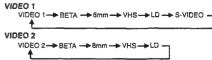
Press A/V WINDOW +/- until the cursor points to the input mode you want to label. (In this case, the cursor is already pointing to "VIDEO 1.")

Press RETURN.
The label display turns red.

Press AV WINDOW +/- to select "VHS."



Each time you press A/V WINDOW +/-, the label changes:



VIDEO 3

VIDEO 3→BETA →8mm → VHS→LD

Press RETURN.
The setting is complete.
When you select or display the video mode, the video label appears.

To label other input modes Repeat steps 6 - 9.

To change a label Same as above.

To return to the previous menu

Press A/V WINDOW +/- until the cursor points to
" > MENU."

* ⊃ MENU." Then press RETURN.

To return to the main menu

Repeat the above, until you reach the main menu.

To return to the normal screen Press MENU.

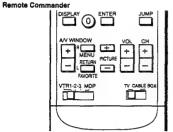
1-14. USING TIMER-ACTIVATED FUNCTIONS

Setting DAYLIGHT SAVING

If you live in an area that uses daylight savings time, set DAYLIGHT SAVING to "YES" or "NO" depending on the season, before setting the current time. At the next daylight savings date, you will be able to automatically adjust all the time-related settings (CURRENT TIME, ON/OFF TIMER and CHANNEL BLOCK) simply by changing the DAYLIGHT SAVING setting.

When setting DAYLIGHT SAVING:

- After the first Sunday in April (spring daylight savings) Set to "YES" before setting the current time.
 Then, on the last Sunday in October (fall daylight savings), set to "NO."
- All the time-related settings automatically move one hour back.
- After the last Sunday in October (fall daylight savings) Set to "NO" before setting the current time.
 Then, on the first Sunday in April (spring daylight savings), set to "YES."
 All the time-related settings automatically move one hour ahead.



Follow these instructions to set DAYLIGHT SAVING to "YES" or "NO."





Press A/V WINDOW +/- until the cursor points to "TIME."

Press RETURN.
The time menu appears.



4 Press A/V WINDOW +/- until the cursor points to "DAYLIGHT SAVING."



Press A/V WINDOW +/- to select "YES" or "NO."

Press RETURN.
The setting is complete.

To return to the previous menu

Press AV WINDOW +/- until the cursor points to " ⊃ MENU."

Then press RETURN.

To return to the main menu

Repeat the above, until you reach the main menu.

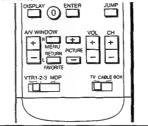
To return to the normal screen. Press MENU.

Setting the clock — CURRENT TIME SET

Follow these instructions to set the current time. The correct current time must be set in order to use the other time-related functions (DAYLIGHT SAVING, ON/OFF TIMER, CHANNEL BLOCK).

Example: Set the time to 3:15 PM, Monday.

Remote Commander



Press MENU.
The main menu appears.



Press AV WINDOW +/- until the cursor points to "TIME."

Press RETURN.
The time menu appears, and the cursor points to "CURRENT TIME SET."

⊕ ►CURRENT TIME SET ON/OFF TIMER CHANNEL BLOCK DAYLIGHT SAVING:NO ⇒MENU Press RETURN again.
The CURRENT TIME SET screen appears, with a reminder to set DAYLIGHT SAVING.



If you do not need to set DAYLIGHT SAVING, press RETURN and continue from step 5.

To set daylight saving

- Press AV WINDOW +/- until the cursor points to "DAYLIGHT SAVING."
- b Press RETURN.
 The time menu appears, and the cursor points to "DAYLIGHT SAVING."
- C Press RETURN.
- d Press A/V WINDOW +/- to select "YES" or "NO."
- Press RETURN.
 The setting is complete.

To set the time, press A/V WINDOW +/- until the cursor points to "CURRENT TIME SET"; press RETURN, then continue from step 5.

Press RETURN. The CURRENT TIME SET screen appears, and the "SUN" display appears (red).

Fress A/V WINDOW +/- to select "MON."

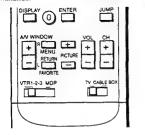
Each time you press A/V WINDOW +/-, the day changes consecutively.



(Continued)

Setting the clock — CURRENT TIME SET (Cont'd. from prev. page)

Remote Commander



Press RETURN.
The hour and am/pm displays turn red.

Press AV WINDOW +/- to set "3:00PM."

Each time you press AV WINDOW +/-, the hour changes in sequence beginning with "12:00AM."



9 Press RETURN.
The minute display turns red.

Press AV WINDOW +/- to select "15" (minutes).
Each time you press AV WINDOW +/-, the minutes change in sequence.



Press RETURN.

The cursor points to "START."

12 Check the actual time, and press RETURN to start the clock.

The setting is complete.

To reset the time

Display the CURRENT TIME SET screen and repeat steps 5 – 12.

To display the current time Press DISPLAY.

To return to the previous menu

Press AV WINDOW +/- until the cursor points to

" ⊃ MENU."

Then press RETURN.

To return to the main menu Repeat the above, until you reach the main menu.

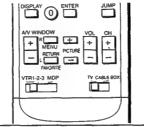
To return to the normal screen. Press MENU.

Setting the ON/OFF TIMER

Follow these instructions to make the program of your choice appear on the screen at a specified time.

Example: Set the timer to turn on the projection TV every Monday through Fnday at 1:30 AM for 3 hours, on channel 8, as PROGRAM 1. (You can set up to three programs.)

Remote Commander



Press MENU.
The main menu appears.



Press AV WINDOW +/- until the cursor points to "TIME."

Press RETURN.
The time menu appears.

⊕

CURRENT TIME SET
ON/OFF TIMER
CHANNEL BLOCK
DAYLIGHT SAVING:NO
>MENU

Press AV WINDOW +/-- until the cursor points to "ON/OFF TIMER."

Fress RETURN.
The ON/OFF TIMER screen appears, and the cursor points to "1."



To set program 1, press RETURN.
(To set program 2 or 3, press AV WINDOW +/- until the cursor points to that program; then press RETURN.)

The day input space turns red.

Press A/V WINDOW +/- to select "EVERY MON-FRI"; then press RETURN. Each time you press A/V WINDOW +/-, the days of the week change as shown in Fig. 1 (p. 61).



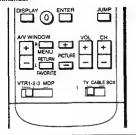
Press A/V WINDOW +/- to select "1:00AM"; then press RETURN.
Each time you press A/V WINDOW +/-, the hour changes in sequence.



(Continued)

Setting the ON-OFF TIMER (Cont'd from prev. page)

Remote Commander



Press A/V WINDOW +/- to select "30" (minutes); then press RETURN.

Each time you press A/V WINDOW +/-, the minutes change in sequence.

> OON/OFF TIMER
> 1.EVERY MON-FRI
> 1:30AM H CH 2....AM _H CH... 3.....AM _H CH___ Set the duration.

Press A/V WINDOW +/- to select "3" (hour duration); then press RETURN. Each time you press A/V WINDOW +/- the duration changes from "1" - "6" in sequence.



Press AV WINDOW +/- to select "8" (channel); then press RETURN.

The TIMER/STAND BY lamp lights, indicating that the

setting is complete. Each time you press AV WINDOW +/-, the channel number changes from 1 - 125 in sequence.



The display "TIMER WILL BE OFF" appears on the screen one minute before the timer duration ends.

To set program 2 or 3.

Press RETURN and repeat steps 6 - 11.

To erase an ON/OFF TIMER setting

Display the ON/OFF TIMER screen, select the setting you want to erase, and select a blank space for the day. The ON/OFF TIMER setting is erased.

To enter a new ON/OFF TIMER setting

Display the ON/OFF TIMER screen and repeat steps 6 - 11.

To return to the previous menu

Press A/V WINDOW +/- until the cursor points to " > MENU."

Then press RETURN.

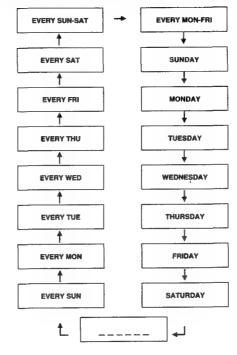
To return to the main menu

Repeat the above, until you reach the main menu.

To return to the normal screen. Press MENU.

If you unplug the projection TV or a power failure occurs, both the clock and timer settings will be erased. Reset the current time; then set the timer.

Selecting the day(s) of the week When you press AV WINDOW +, the days of the week appear in the following order:

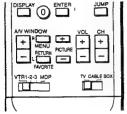


Setting CHANNEL BLOCK

Follow these instructions to prevent a channel from appearing on the screen during the time that you specify. You can use this function to prevent children from watching unsuitable programs.

Example: Set CHANNEL BLOCK every Saturday at 4:30 PM for 1 hour, on Channel 12.

Remote Commander



Note

If you have not set the current time, the "CHANNEL BLOCK" display is shaded and cannot be selected.

Press MENU.
The main menu appears.



Press A/V WINDOW +/- until the cursor points to "TIME."

3 Press RETURN.
The time menu appears.



Press A/V WINDOW +/- until the cursor points to "CHANNEL BLOCK."

Press RETURN. The CHANNEL BLOCK screen appears, and the cursor points to the day input space.



6 Press RETURN.
The day input space turns red.



Press AV WINDOW +/- to select "EVERY SAT"; then press RETURN.
Each time you press AV WINDOW +/-, the days of the week change as shown in Fig. 1 (p. 61).

Press A/V WINDOW +/- to select "4:00PM"; then press RETURN.
Each time you press A/V WINDOW +/-, the hour changes in sequence.



Press A/V WINDOW +/- to select ":30" (minutes); then press RETURN.

Each time you press A/V WINDOW +/-, the minutes change in sequence.



Press AV WINDOW +/- to select "1" (hour duration); then press RETURN.

Each time you press AV WINDOW +/-, the duration changes from "1" - "6" in sequence.

©CHANNEL BLOCK

EVERY SAT
4:30PM 1H CH...

Set the channel

Press AV WINDOW +/- to select "12" (channel); then press RETURN.
The setting is complete.
Each time you press AV WINDOW +/-, the channel number changes from "1" - "125" in sequence.



At the specified time, "BLOCKED" appears in red on the screen, and the picture of the specified channel is blocked and the sound is muted.

BFOCKED

To erase a CHANNEL BLOCK setting

Display the CHANNEL BLOCK screen and select a blank space for the day.

The CHANNEL BLOCK setting is erased.

To enter a new CHANNEL BLOCK setting

Display the CHANNEL BLOCK screen and repeat steps 4 – 10. (You can only set one CHANNEL BLOCK at a time.)

To return to the previous menu

Press AV WINDOW +/- until the cursor points to " ⊃ MENU." Then press RETURN.

To return to the main menu

Repeat the above, until you reach the main menu.

To return to the normal screen, Press MENU.

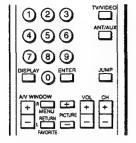
Note

If the ON/OFF TIMER is set for an overlapping time (pp. 59 – 61), the later time setting takes precedence. For example, if CHANNEL BLOCK is set for 2:00 PM and ON/OFF TIMER is set for 3:00 PM, ON/OFF TIMER will take effect at 3:00 PM.

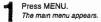
1-15. SETTING FAVORITE CHANNEL

By setting FAVORITE CHANNEL, you can select the channels you use most frequently (up in seven channels) simply by pressing RETURN.

Remote Commander



Follow these instructions to set the channels.





Press AV WINDOW +/- until the cursor points to "SET UP"

Press RETURN.

The set up menu appears.



Press A/V WINDOW +/- until the cursor points to FAVORITE CHANNEL."

Press RETURN.

The FAVORITE CHANNEL screen appears, and the cursor points to the first channel position.



Press AV WINDOW +/- to select the channel position; then press RETURN.

Press 0 – 9 and ENTER to set the channel number.



8 Press RETURN.
The setting is complete

To set other channels Repeat steps 6 – 8.

To erase a favorite channel setting

Press A/V WINDOW +/- until the cursor points to the channel number you want to erase; press RETURN, then press 0 and ENTER.

To reset a favorite channel setting

Display the FAVORITE CHANNEL screen and repeat steps 6 – 8.

To return to the previous menu

Press A/V WINDOW +/-- until the cursor points to " > MENU."

Then press RETURN.

To return to the main menu

Repeat the above, until you reach the main menu.

To return to the normal screen.

Press MENU.

Selecting a favorite channel

After setting the channels, follow these instructions to select the channel you want to watch.

Press RETURN.
The FAVORITE CHANNEL display appears.



Note

If you have set channel captions (pp. 53 - 54), the captions appear with the channel numbers.

Press AV WINDOW +/- to select the channel you want to watch; then press RETURN.

The channel is selected.

If you press RETURN on the Remote Commander before setting FAVORITE CHANNEL, this screen appears.

Set your favorite channels first.
Please go to SET UP in the menu.

Follow steps 1 – 8 to set your favorite channels, and then make the selection.

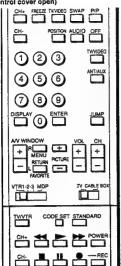
64

You can operate other video equipment (such as VCRs, video disc players and cable boxes) that have an infrared remote detector with this supplied Remote Commander.

Operating Sony video equipment

Follow these instructions to operate Sony video cassette recorders (Beta, 8 mm and VHS) and video disc players (including multi-disc players).

Remote Commander (with video control cover open)



2 Use the video operating buttons to control the connected equipment.

Fig. 3: Operating a VCR (VTR1, 2, 3)		
To turn on or off	Press POWER.	
To change channels (when watching TV programs through the VCR's tuner)	Press CH +/-	
To record	Press ● and REC simultaneously.	
To play	Press ►	
To stop	Press .	
To fast forward	Press ►►	
To rewind the tape	Press ◄◄.	
To pause	Press II. To resume normal playback, press again.	
To search the picture forward and backward	Keep pressing ▶▶ or ◀◀ during playback. To resume normal playback, release the button.	
To change input mode	Press TV/VTR.	

Fig. 4: Operating a Video Disc Player (MDP)		
To turn on or off	Press POWER.	
To play	Press ►	
To stop	Press .	
To pause	Press II. To resume normal playback, press again. Note This function is effective only for CAV (standard-play disc). With CLV (extended-play disc), the projection TV goes off (standby mode) if you press III.	
To search the picture forward and backward	Keep pressing → or ← during playback. To resume normal playback, release the button.	

Notes

- If the video equipment does not have a certain function, the corresponding button on this Remote Commander will not precate.
- If you set another manufacturer's code to a VTR1-2-3 MDP selector position (pp. 68 – 69), you must also set the Sony code to operate Sony equipment.

Caution

When you replace the batteries, do so within approximately 30 minutes. Otherwise the settings you made under the Pre-Programmed function (pp. 68 – 70) may be erased.

Set the VTR1-2-3 MDP selector according to the video equipment you want to operate.



Fig. 2: Video equipment settings

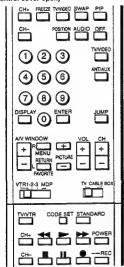
If you want to operate a:	set to:
Beta, ED Beta VCR	VTR 1
8 mm VCR	VTR 2
VHS VCR	VTR 3
Video disc player	MDP

Operating non-Sony or Sony video equipment

Follow these instructions to set the manufacturer's code, which will enable you to operate non-Sony and Sony video equipment with the pre-programmed Remote Commander.

Example: Operate an RCA video cassette recorder connected to the VIDEO 2 IN jacks.

Remote Commander (with video control cover open)



While pressing CODE SET, press 0, 7 and ENTER to set RCA's code number. (For manufacturer code numbers, see Figs. 5, 6 and 7 on p. 69.)



Use the video operating buttons to operate the connected equipment. (see Fig. 3 on p. 66 and Fig. 4 on p. 67.)

Fig. 5: VCR manufacturer code numbers

MANUFACTURER	CODE
SONY	01, 02, 03
CANON	05
EMERSON	22, 30, 33
FISHER	10, 11, 12, 15
FUNAI	29
GENERAL ELECTRIC	05, 08
GOLDSTAR	25
HITACHI	07, 08, 36
JVC	16, 35
MAGNAVOX	05, 06, 09
MITSUBISHI	18, 19, 26, 27
MULTITECH	29
NEC	16, 23, 31
PANASONIC	05, 06
PHILCO	05, 06
PHILIPS	05, 06, 09
QUASAR	05, 06
RCA	07, 08
SAMSUNG	24, 32
SANYO	11, 15
SCOTT	21
SHARP	13, 14
SHINTOM	34
SYLVANIA	05, 06, 09
SYMPHONIC	29
TEKNIKA	28, 29
TOSHIBA	20, 21
TOTE VISION	25
ZENITH	17

Fig. 6: MDP manufacturer code numbers

MANUFACTURER	CODE	
SONY	04	
KENWOOD	58	
MAGNAVOX	52	
MARANZ	54	
MITSUBISHI	51	_
PANASONIC	55	
PHILIPS	52	
PIONEER	51	
RCA	51	
SANYO	57	_
SHARP	56	_
YAMAHA	53	

Fig. 7: Sony Equipment and Code Numbers

SONY EQUIPMENT	CODE	
Beta, ED Beta VCR	01	
8 mm VCR	02	
VHS VCR	03	
Video disc player	04	

Note

In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied Remote Commander. This is because your equipment may use a code that is not provided with this Remote Commander. In this case, please use the equipment's own remote control unit.

Set the VTR1-2-3 MDP selector to VTR2.



Note

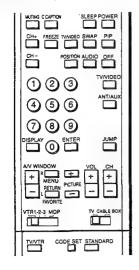
To use another manufacturer's equipment besides a Sony VCR, set the selector to a position not being used for your Sony video equipment.

Operating a cable converter box

Follow these instructions to set the manufacturer's code, which will enable you to operate a connected cable converter box with the pre-programmed Remote Commander.

Example: Operate a connected Zenith cable converter box.

Remote Commander (with video control cover open)



Set the TV/CABLE BOX selector to CABLE BOX.



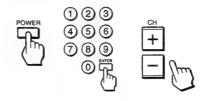
Notes

- If more than one code number is listed, try entering them one by one, until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting serased.
- In some rare cases, your equipment may use a code that is not provided with this Remote Commander and you may not be able to operate your cable converter box with the supplied Remote Commander. In this case, use the equipment's own remote control unit.

While pressing CODE SET, press 6 and 8 (Zenith's code number — see Fig. 8) and ENTER.



Use the projection TV control buttons (POWER, 0 – 9, ENTER and CH +/–) to operate the cable converter



To return to the normal screen

Set the TV/CABLE BOX selector to TV; then use the projection TV control buttons to control the projection TV.

For more details on operating the cable box
Refer to the operating instructions that come with the

Fig. 8: Cable box manufacturer code numbers

MANUFACTURER	CODE
JERROLD	60, 61, 62, 63, 64, 65
PIONEER	69, 70
SCIENTIFIC ATLANTA	66, 67
ТОСОМ	71,72
ZENITH	68

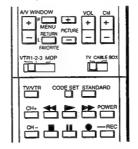
Selecting a VCR mode directly — DIRECT PLAY

Follow these instructions to switch from TV to VCR mode by simply pressing the ▶ (playback) button on the supplied Remote Commander.

Example: Connect your VCR to the VIDEO 2 IN jacks, and set the VTR1-2-3 MDP selector to VTR2. When you press ▶, the input mode changes to the VCR connected to the VIDEO 2 IN jacks.

After completing the steps below, the VTR selector position is retained in the projection TV's memory.

Remote Commander (with video control cover open)



Press MENU.
The main menu appears.



Press AV WINDOW +/- until the cursor points to "SET UP"

Press RETURN.
The set up menu appears.



4 Press A/V WINDOW +/- until the cursor points to "DIRECT PLAY."

5 Press RETURN.
A message screen appears.



Note

This screen reminds you to set the manufacturer's code, if you have not aiready done so (pp. 68 – 69).

Press RETURN again.
The DIRECT PLAY screen appears.



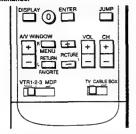
Press AV WINDOW +/- until the cursor points to the video input mode. (When the video equipment is connected to VIDEO 1 N, select "VIDEO1.")

8 Press RETURN.
The mode display turns red.

(Continued)

Selecting a VCR mode directly – DIRECT PLAY (Contd. from prev. page)

Remote Commander



Press A/V WINDOW +/- to select the VTR selector mode you have set on the Remote Commander. (When the VTR1-2-3 MDP selector is set to VTR2, select "VTR 2.")

Each time you press A/V WINDOW +/-, "VTR 1," "VTR 2."

"VTR 3," "MDP" and "OFF" appear in sequence.



10 Press RETURN.
The direct play setting is complete.

To set direct play for other connected video equipment Repeat steps 7 – 10.

To return to the previous menu

Press AV WINDOW +/- until the cursor points to

□ MENU."

Then press RETURN.

To return to the main menu
Repeat the above, until you reach the main menu.

To return to the normal screen. Press MENU.

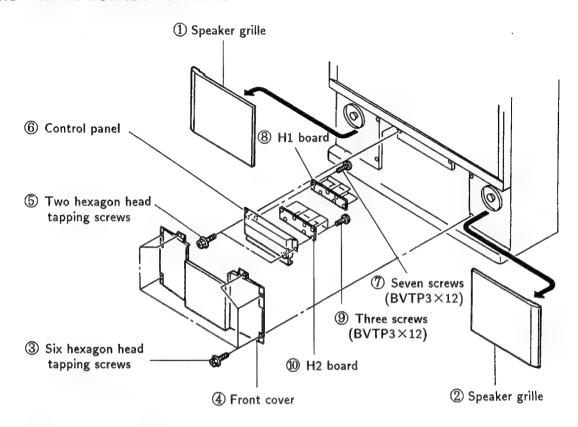
1-17. TROUBLESHOOTING

Disturbances in picture and sound can often be eliminated by checking the symptoms and following the suggestions listed here. If the problem still cannot be solved, contact your nearest service facility.

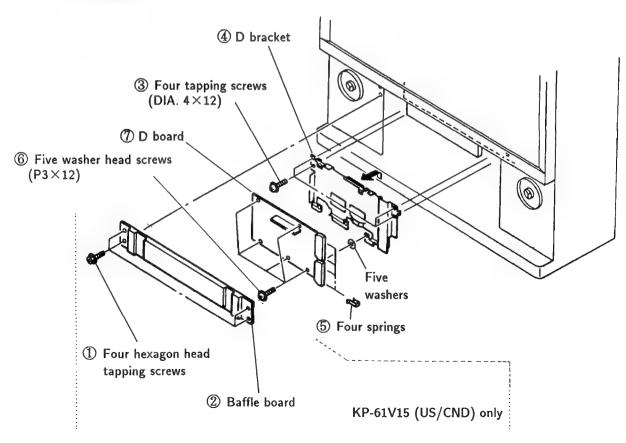
Symptom	Possible causes and remedles
No picture (screen not lit), no sound	Make sure POWER is switched on. Check the power cord connection. Check that the TV/VIDEO and VTR1-2-3 MDP controls are set correctly. Make sure that the TV/CABLE BOX selector is set to TV.
Poor or no picture (screen not lit), good sound	 Adjust the picture using the VIDEO screen (pp. 44 – 47). Check the antenna/cable connections. Adjust the color registration (pp. 24 – 25).
Good picture, no sound	Press VOLUME + on the projection TV or VOL + on the Remote Commander. Press MUTING on the Remote Commander. Check the MTS setting (p. 51). Check that the TV/VIDEO and VTR1-2-3 MDP controls are set correctly. Make sure SPE
No color for color programs	Check the HUE and COLOR settings (pp. 44 – 45).
Snow and noise only	Check that it is an active or correct channel. Check the cable setting. Check antenna/cable connections.
Dotted lines or stripes	This is often caused by local interference (for example, cars, neon signs and hairdryers). Adjust the telescopic aerial for minimum interference.
Double images or ghosts	Reflections from nearby mountains or buildings often cause this problem. Connecting a highly directional outdoor antenna or a CATV cable may improve the picture.
Remote control does not operate	Check the battery in the Remote Commander.
No picture and/or sound for the connected equipment	Check that the TV/VIDEO button is set correctly. Check that the connections are properly made. Check that the power of the connected equipment is turned on. Check that the connected equipment is set correctly.
Tyrenether of	nannel. It could be station trouble.

SECTION 2 DISASSEMBLY

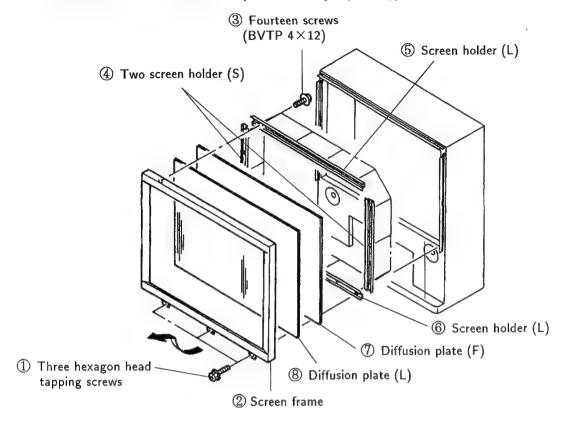
2-1. H1 AND H2 BOARDS REMOVAL



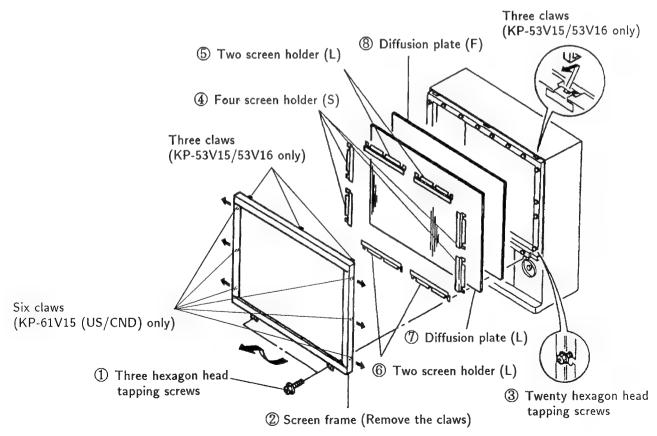
2-2. D BOARD REMOVAL



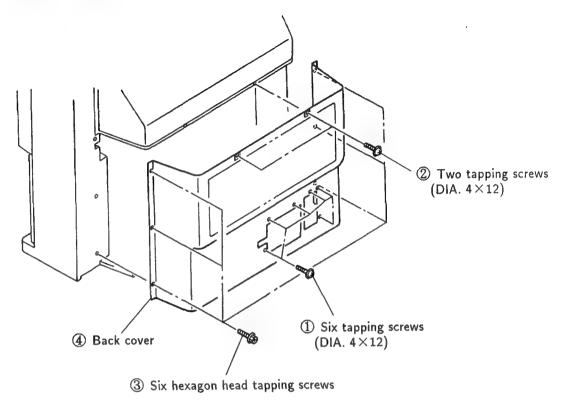
2-3-1. DIFFUSION PLATE REMOVAL (KP-46V15 (US/CND)/46V16 only)



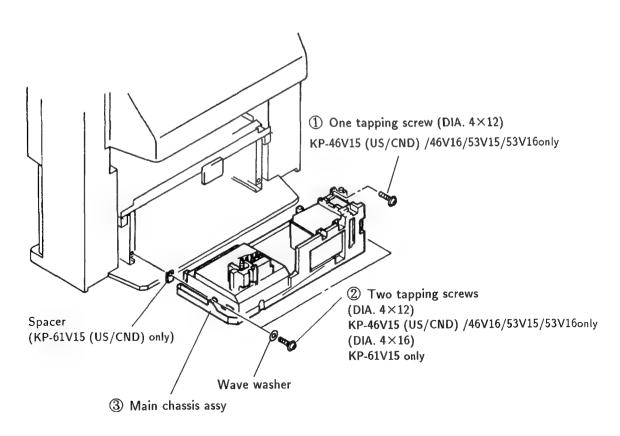
2-3-2. DIFFUSION PLATE REMOVAL (KP-53V15/53V16/61V15 (US/CND) only)



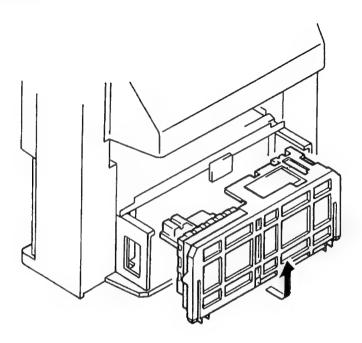
2-4. BACK COVER REMOVAL



2-5. MAIN CHASSIS ASSY REMOVAL



2-6. SERVICE POSITION



NOTES INSERTED IN SERVICE POSITION SECTION

Service Position Procedure

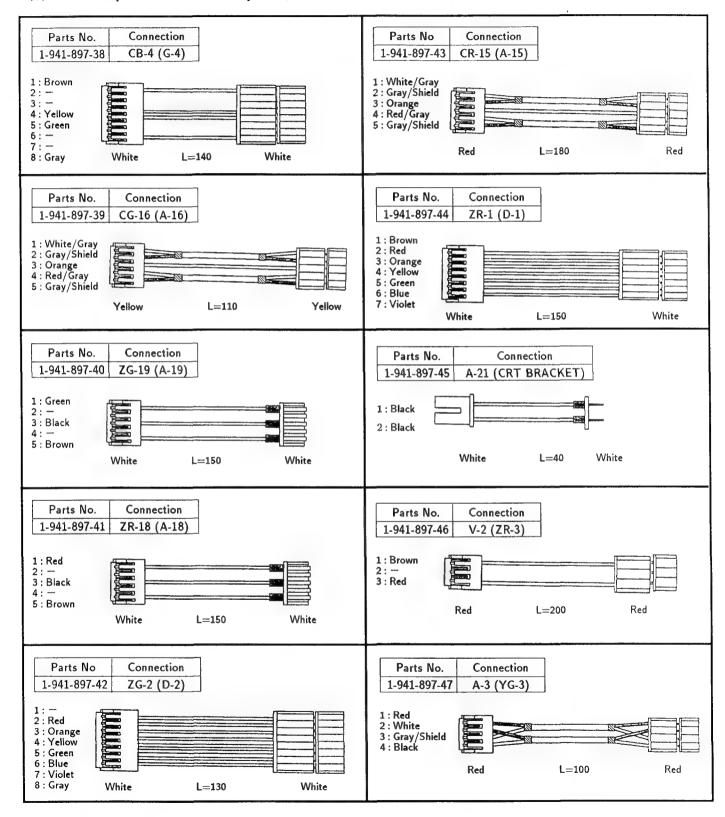
- (1) Remove the path locks where the harness comes into. (MAIN bracket, G shield)
- (2) Remove the following connectors before removing the main bracket.
 - * HV grounding lead, G shield grounding lead, uT35 grounding lead (uT board), V-2 connector (V board).
- (3) Remove the main bracket. (Take care as the connector leads linking to the C and Z boards are considerably short.)
 (MAIN bracket, G shield)
- (4) When pulling out the main bracket with power ON, be sure to connect the connectors removed.
 - * HV grounding lead, G shield grounding lead, uT35 grounding lead (uT board).

In case that grounding lead (Black) of HV Block is not connected with chassis grounding, it causes arcing of CRT and it is dangerous.

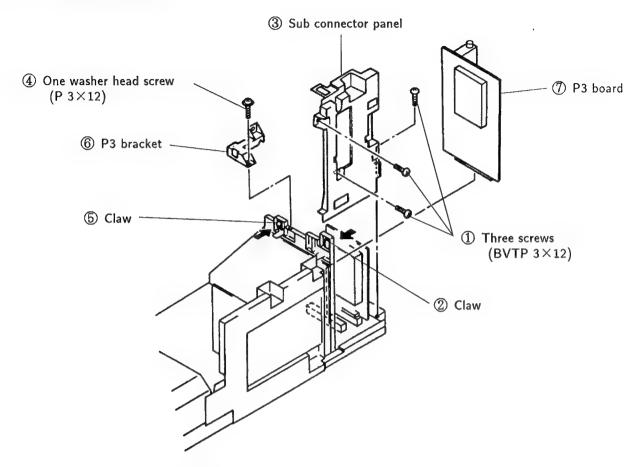
Be sure to connect grounding lead of HV Block with chassis grounding.

CONNECTOR CABLES

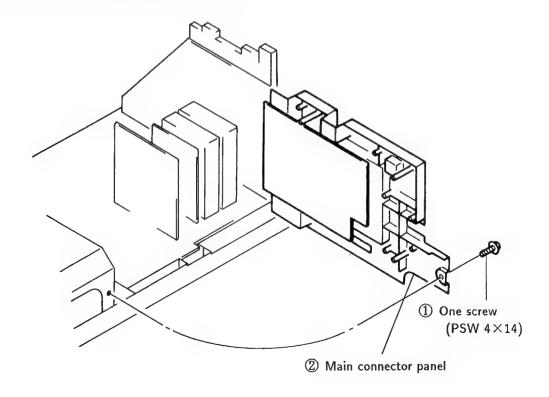
in order to put the set in the service position, use the extension connector cables below.



2-7. P3 BOARD REMOVAL



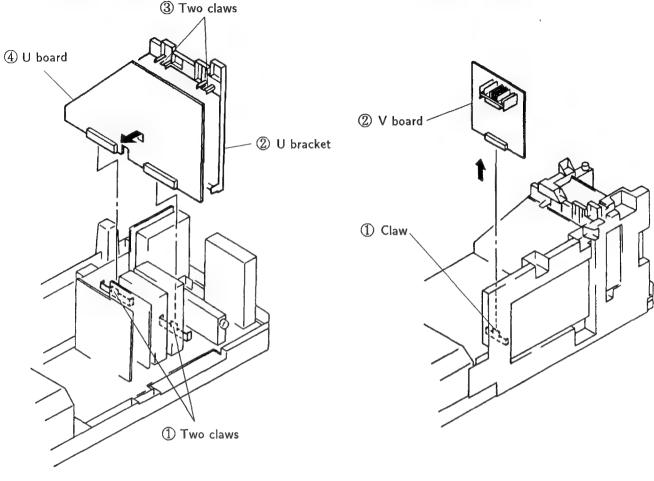
2-8. MAIN CONNECTOR PANEL REMOVAL



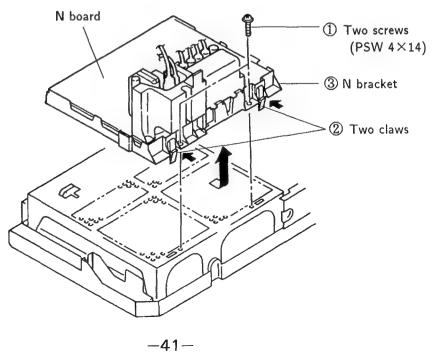
2-10. V BOARD REMOVAL

2-9. U BOARD REMOVAL

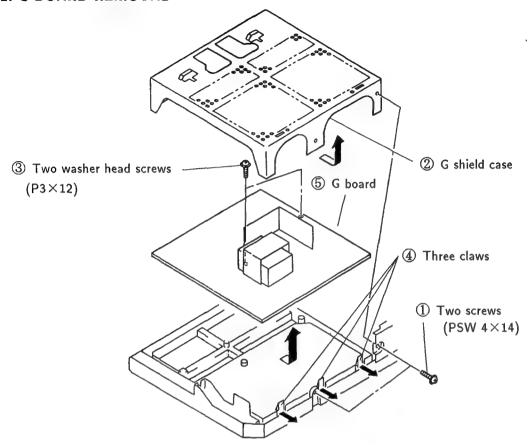




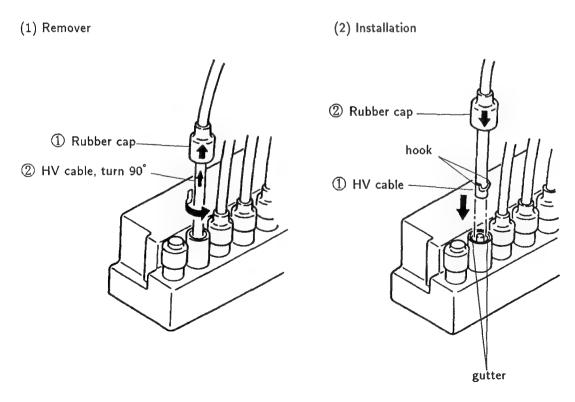
2-11. N BRACKET REMOVAL

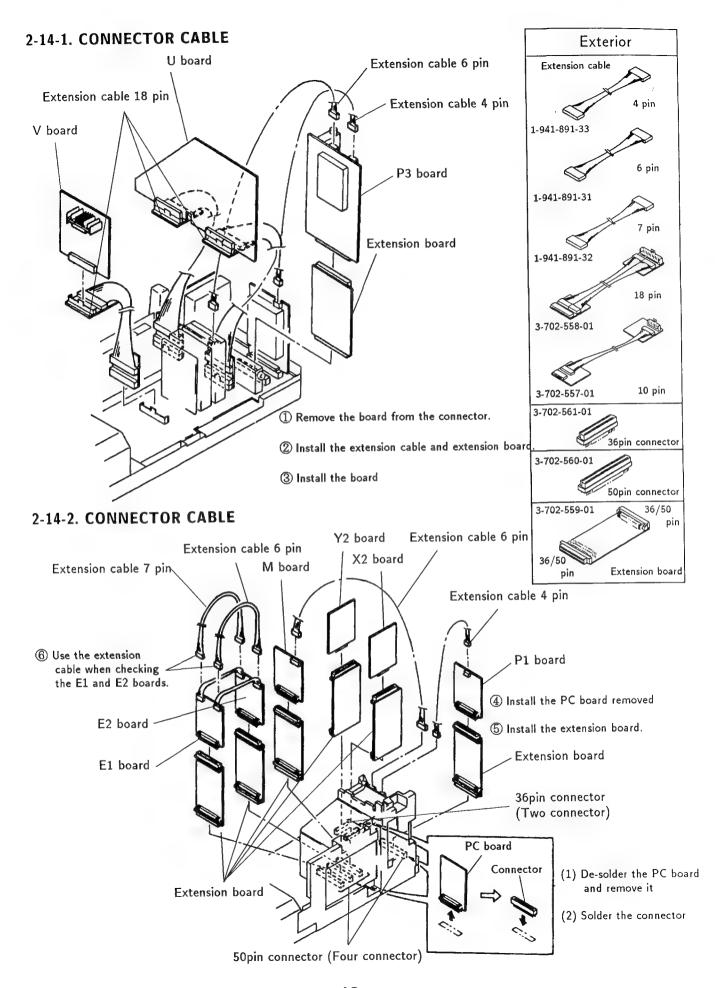


2-12. G BOARD REMOVAL

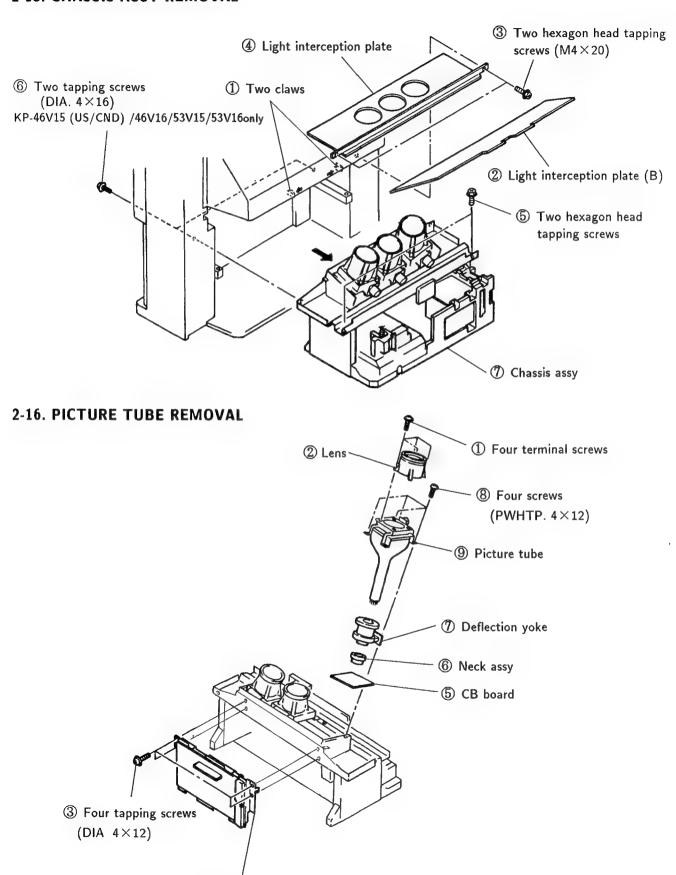


2-13. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL





2-15. CHASSIS ASSY REMOVAL

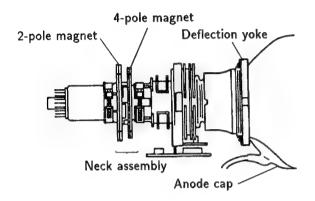


4 D bracket

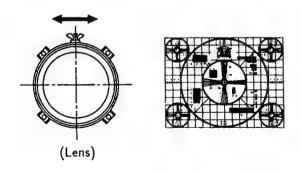
SECTION 3 SET-UP ADJUSTMENTS

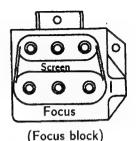
3-1. FOCUS LENS ADJUSTMENTS

- Set the D-board registration variable resistors (VR) to mechanical center.
- 2. Set the centering magnets (for red, green, and blue) to 0 as shown in the figure.

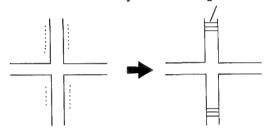


- Input monoscope signal. Set 50% BRIGHTNESS and minimum PICTURE. Make rough adjustment so that 10IRE of the monoscope signal becomes faintly luminous using the screen VRs.
- Set PICTURE and BRIGHTNESS maximum.
 Press the commander menu button. Select
 CONVERGENCE to display test signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
 Similarly, select B OFF to cut off blue output.
- 6. Turn the green lens to eliminate flare of the test signal.

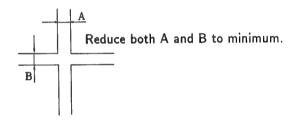




Verify that scanning lines are seen.



7. Turn the green focus VR in the focus block to adjust green focus to reduce both A and B of the test signal to minimum.



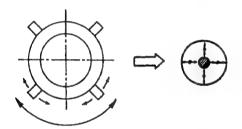
- 8. Repeat avobe 6 and 7. Couple of times to improve tracking and obtain an optimum focus. Then tighten the green lens screw.
- 9. Adjust the red and blue focuses similarly.

3-2. DEFLECTION YOKE POSITION ADJUSTMENTS

- 1. Input monoscope signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
 Similarly, select B OFF to cut off blue output.
- 3. Loosen the deflection yoke (DY) fitting screws. Tilt the DY to obtain the best horizontal and vertical monoscope patterns.
- 4. After adjustment, press the DY onto the cathode ray tube (CRT) funnel and tighten the screws.
- 5. Also adjust DY positions for red and blue outputs in the same way.

3-3. 2-POLE MAGNET ADJUSTMENT

- 1. Input dot signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
 Similarly, select B OFF to cut off blue output.
- Set PICTURE to maximum. Turn the green focus variable resistor (VR) in the focus block counterclockwise from the just focus to brighten the point in the dot.
- 4. Adjust the 2-pole magnet to position the bright point at the center of the dot.
- 5. Adjust the red and blue dots in the same way.
- * Use the center dot:red and green
 Use the vertical center and left end dot :blue



3-4. 4-POLE MAGNET ADJUSTMENT

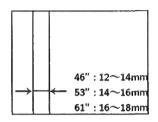
- 1. Input dot signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
 Similarly, select B OFF to cut off blue output.
- 3. Set PICTURE to maximum. Turn the green focus variable resistor (VR) in the focus block clockwise (count clockwise:blue) from the just focus until the dot diameter becomes as shown below.
- 4. Adjust the 2-pole magnet to make the dot perfectly round.
- 5. Turn the green focus variable resistor to the just focus.
- 6. Adjust the red and blue dot in the same way.
- * Use the center dot : red and green

 Use the vertical center and left end dot : blue

→

3-5. DE-FOCUS ADJUSTMENT (BLUE)

- 1. Input cross hatch signal.
- 2. Turn the blue focus variable resistor (VR) in the focus block counter clock wise so that the width of the left end vertical line becomes as shown below

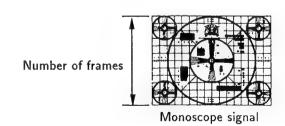


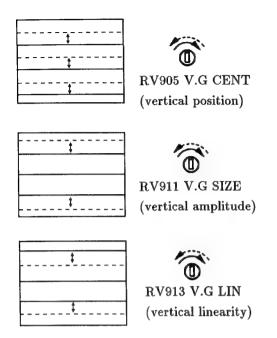
3-6. GREEN PICTURE ADJUSTMENTS

without flare

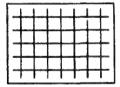
- 1. Input monoscope signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
 Similarly, select B OFF to cut off blue output.
- 3. Turn RV913 and RV960, the vertical green linearity variable resistors (V.G LIN VRs) on the D-board, to obtain an optimum vertical linearity. Then turn RV911, the vertical green amplitube variable resistor (V.G SIZE VR) to set vertical amplitude to 11.7 flames.

Note: The vertical position indicator of the monoscope signal must be positioned at the center by adjusting RV905, the vertical green center position variable resistor (V.G CENT VR) in advance.





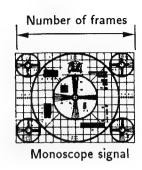
5. Verify that the horizontal lines on the top and bottom of cross-hatched area of the monoscope signal are horizontal and linear.

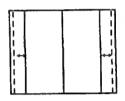


 Turn RV916, RV964 and RV969, the horizontal green linearity variable resistors (H.G LIN VRs) on the D-board, to obtain an optimum horizontal linearity.

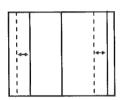
Then turn RV908, the horizontal green amplitude variable resistor (H.G SIZE VR) to set horizontal amplitude to 15.6 frames.

Note: The horizontal position indicator of the monoscope signal must be positioned at the center by adjusting RV902, the horizontal green center position variable resistor (V.G CENT VR) in advance.







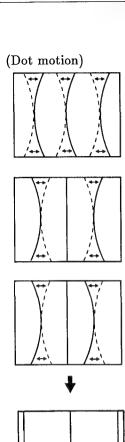


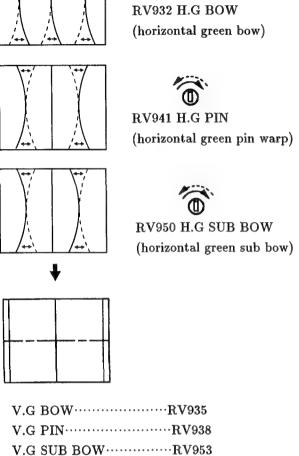


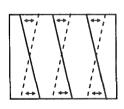
7. Input cross hatch signal.
Turn vertical green (V.G) and horizontal green (H.G) variable resistors (VRs) and make adjustments according to the following steps:

(Adjustment procedure)

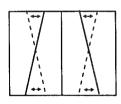
- 1. $[BOW] \rightarrow [SKEW] \rightarrow [CENT (center position)]$
- 2. [PIN (pin warp)] \rightarrow [SUB BOW] \rightarrow [BOW]
- 3. [KEYS (trapezoid)] → [SUB SKEW] → [SKEW]
- [M.WAVE (middle sine wave warp)] →
 [WAVE-A (upper and lower sine wave warp)] →
 [WAVE-U (upper sine wave warp)]
 - **※** For vertical (V) only.
- [V-M.PIN (vertical middle pin warp)] →
 [V/WING (vertical wing warp)]
 - ※ For vertical (V) only.
- 6. [H-M.PIN (horizontal middle pin warp)]
 - * For horizontal (H) only.



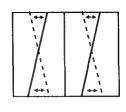




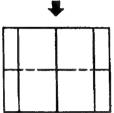
RV920 H.G SKEW (horizontal green skew)



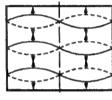
RV925 H.G KEYS (horizontal green trapezoid)



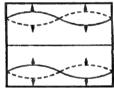
RV944 H.G SUB SKEW (horizontal green sub skew)



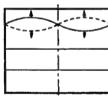
$V.G~SKEW \cdots RV923$
V.G KEYSRV929
V.G SUB SKEW·····RV947



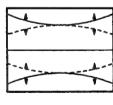
RV962 V-M-WAVE (vertical middle sine wave warp)



RV975 V-WAVE-A (vertical upper and lower sine wave warp)

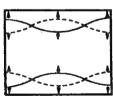


RV978 V-WAVE-U (vertical upper sine wave warp)



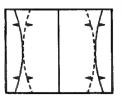
RV980 V-M. PIN (vertical middle pin warp)

※ Common in red, green, and blue



RV957 V/WING (wing warp) * Common in red, green,

and blue





RV956 H/M. PIN (horizontal middle pin warp)

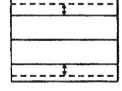
3-7. GREEN AND RED REGISTRATION ADJUSTMENTS

- 1. Input cross hatch signal.
- 2. Enter service mode. Select B OFF of SERVICE MODE to cut off blue output.
- 3. Turn the vertical red (V.R) and horizontal red (H. R) variable resistors (VRs) to adjust red picture convergence in relation to green picture according to the following steps:

(Adjustment procedure)

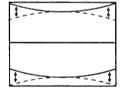
- [LIN (linearity)] → [SIZE (amplitude)] →
 [CENT (center position)]
- 2. $[BOW] \rightarrow [SKEW] \rightarrow [CENT (center position)]$
- [PIN (pin warp)] → [SUB BOW] → [BOW]
 [H/M. PIN (horizontal middle pin warp)]
- 4. [KEYS (trapezoid)] → [SUB SKEW] → [SKEW]
- [M.WAVE (middle sine wave warp)] →
 [WAVE-A (upper and lower sine wave warp)] →
 [WAVE-U (upper sine wave warp)]

(Dot motion)



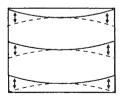


RV912 V.B SIZE (vertical red amplitude)



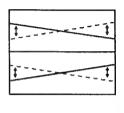


RV952 V.R SUB BOW (vertical red sub bow)

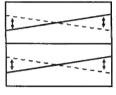


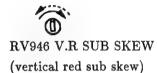


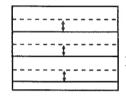
RV943 V.R BOW (vertical red bow)



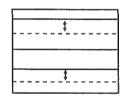




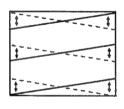














H.R LIN·····RV915
H.R SIZERV907
H.R CENT·····RV901
$H.R~BOW \cdots \cdots RV931$
H.R SKEWRV919
H,R PINRV940
H.R KEYSRV926
H.R SUB BOW·····RV949
H.R SUB SKEW $\cdots \sim RV943$
$V\text{-}M\text{-}WAVE\cdots\cdotsRV973$
$V\text{-}WAVE\text{-}A\cdots\cdots RV976$
$V\text{-}WAVE\text{-}U\cdots\cdots\cdotsRV979$
V-M.PIN·····RV980
V/WINGRV957

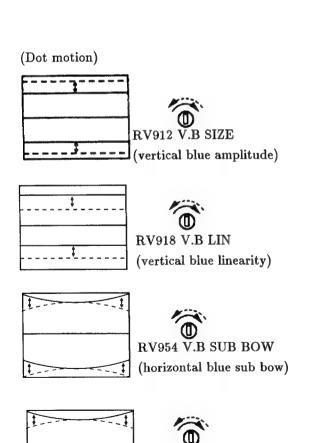
H/M.PIN RV956

3-8. GREEN AND BLUE REGISTRATION ADJUSTMENTS

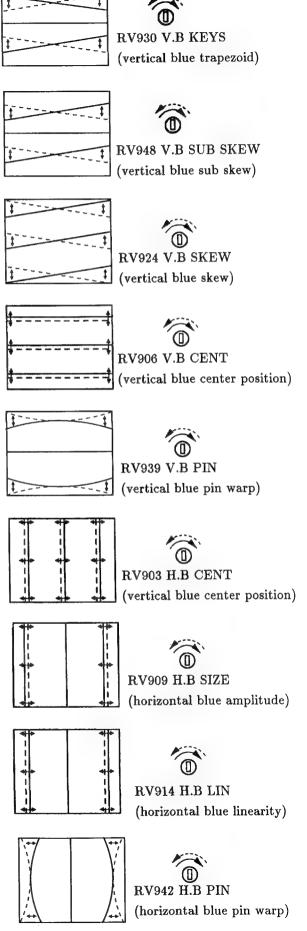
- 1. Input cross hatch signal.
- Enter service mode. Select R OFF of SERVICE MODE to cut off red output.
- 3. Turn the vertical blue (V.B) and horizontal blue (H.B) variable resistors (VRs) to adjust blue picture convergence in relation to green picture according to the following steps:

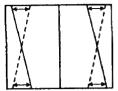
(Adjustment procedure)

- [LIN (linearity)] → [SIZE (amplitude)] →
 [CENT (center position)] →
- 2. $[BOW] \rightarrow [SKEW] \rightarrow [CENT (center position)]$
- [PIN (pin warp)] → [SUB BOW] → [BOW]
 [H/M. PIN (horizontal middle pin warp)]
- 4. [KEYS (trapezoid)] \rightarrow [SUB SKEW] \rightarrow [SKEW]
- [M.WAVE (middle sine wave warp)] →
 [WAVE-A (upper and lower sine wave warp)] →
 [WAVE-U (upper sine wave warp)] →



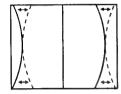
RV936 V.B BOW (vertical blue bow)





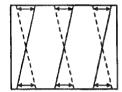


RV954 H.B SUB SKEW (horizontal blue sub skew)



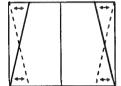


RV951 H.B SUB BOW (horizontal blue sub bow)



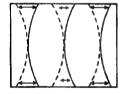


(horizontal blue skew)



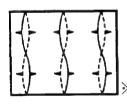


RV927 H.B KEYS (horizontal blue trapezoid)



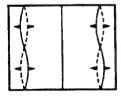


RV933 H.B BOW (horizontal blue bow)





RV981 Common in red, green, and blue





RV982 % Common in red, green, and blue

H/M PIN······	·····RV958
M.WAVE·····	·····RV961
WAVE-A·····	·····RV974
WAVE-U·····	····RV977

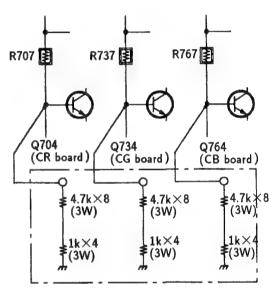
3-9. REGISTRATION CHECK

- 1. Out put red, blue, and green.
- 2. Out put cross hatch and monoscope signals to check registration. Also check focus.

3-10. WHITE BALANCE ADJUSTMENTS

1) Screen adjustment

- 1. Input white signal.
- 2. Remove connectors CR-15, CG-16, and CB-17.
- Fit jigs between the ground and R707, R737, and R767.



- * Resistors in each jig are connected serial.
- 4. Turn the RGB (red, green, and blue) screen variable resistors in the focus block to make the flyback line faint. Stop before the line completely disappears.
- 5. Insert connectors CR-15, CG-16, and CB-17.

2) White balance adjustments (SBRT, GAMP, BAMP, GCUT, BCUT)

- 1. Input monoscope signal and enter service mode.
- 2. Select the picture quality adjustment from the menu and set PICTURE minimum.
- 3. Use the commander to adjust SBRT so that 10 IRE of the monoscope pattern becomes faintly luminous.
- 4. Input white signal.
- 5. Set PICTURE minimum. Adjust item GCUT and BCUT to obtain an optimum white balance.
- 6. Set PICTURE maximum. Adjust GAMP and BAMP to obtain an optimum white balance.
- 7. Repeat white balance adjustment alternating PICTURE setting at the minimum and maximum.

SECTION 4

SAFETY RELATED ADJUSTMENTS

4-1. SAFETY RELATED ADJUSTMENTS

When replacing the following components, make the HV REGULATOR adjustments (on the N board)

Why block, IC803, IC805, D805, D807, C817,
 C818, C821, C836, C837, R824, R825, R827,
 R828, R834,R835, R836, R864, R865, R866,
 R902

When replacing the following components, make the HV HOLD DOWN adjustments (on the N board)

William
<

When replacing the following components, make the BEAM CURRENT PROTECTOR adjustments (on the N board)

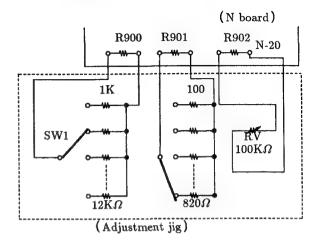
- Z······① IC802, Q805, Q807, D811, D812,C810, C824, C825, C826, C827, C831, R810, R843, R844, R847, R848, R849, R850, R851, R852, R853, R854, R881
 - ② IC804, Q804, Q808, D808, D809, C809, C828,C829, C830, C831, R807, R839, R840, R841,R847, R848, R849, R850, R851, R852, R855, R856, R857, R881

When replacing the following components, make the OVP CIRCUIT adjustments (on the G board)

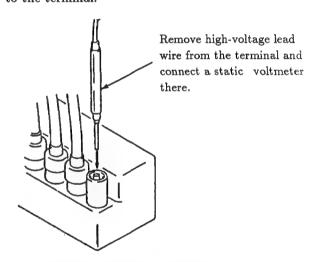
-Q618, Q621, D628, C634, R639, R649, R652, R655, R656
- Checking with static voltmeter -

HV HOLD DOWN ADJUSTMENTS (MR900, R901)

- 1. Verify that the power switch is off.
- Connect the HV hold down adjustment resistance jig to the N20 connector on the N board.



- 3. Connect an external variable resistor (RV) to R 902 of the N board.
- 4. Remove the cap off from the unused terminal of the high voltage block. Connect a static voltmeter to the terminal.



- Receive 120 VAC power voltage and monoscope pattern signal. Maximize PICTURE and BRIGHTNESS.
- 6. Use the external variable resistor of the hold down adjustment jig to make the static voltmeter to read $33.50 \pm 0.50 \text{kVDC}$.
- 7. Raise resistances with the jig until the HV hold down circuit is activated. Read the figures then, and mount resistance of the measured figures to R900 and R901.

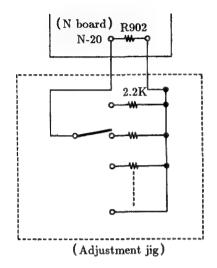
R900: Must be $1k\Omega$ to $12k\Omega$

R901: Must be Jw 100Ω to 820Ω

8. Turn on power again. Vary external variable resistance and confirm that the HV hold down circuit is activated at the reated value, 33.50±0.50kV.

HV REGULATOR ADJUSTMENTS (☐R902)

 Connect the HV adjustment resistance jig to R902 of the N board.



- 2. Remove the red anode lead wire for the CRT tube from the high-voltage block and connect the static voltmeter instead.
- Receive 120 VAC power voltage and monoscope pattern signal. Set PICTURE and BRIGHTNESS to the standard.
- 4. Turn on power. To adjust the resistance of R902 with the adjustment jig to read the rated value, $31.50\pm0.50 \text{kV}$.
- 5. Receive all-white signal. Set BRIGHTNESS to the standard. Maximize PICTURE. Confirm that the rated value, 31.50 ± 0.50 kV is read.
- Cut off RGB by R OFF, G OFF, B OFF of the service commander. Verify that the rated value, 31.50±0.50kV, is read.

+B VOLTAGE CONFIRMATION

- Receive 120±1 VAC power voltage and monoscope pattern signal. Set BRIGHTNESS to standard and maximize PICTURE.
- 2. Connect a digital multimeter between the 115V line and the ground on the G board, and confirm that the rated value, 115.0\\$30V is read.

CHECKING AFTER REPLACING IC601

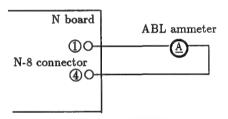
1. When replacing IC601, check the +B voltage.

CHECKING THE OVP (overvoltage protection) CIRCUIT (▶R652)

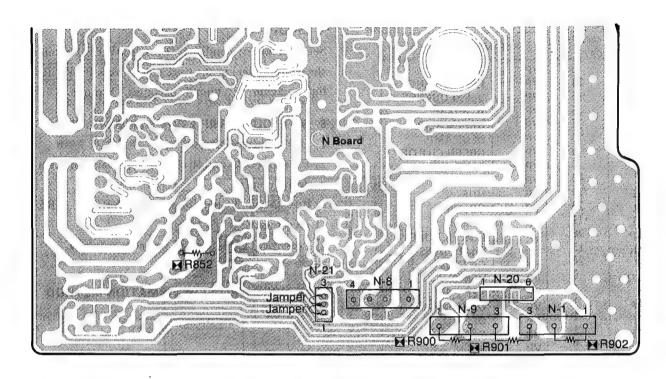
- 1. Receive 120 VAC power voltage and monoscope pattern signal. Maximize PICTURE and BRIGHTNESS.
- 2. Remove R638 from the G board and connect a variable resistor $(4.7 \text{ to } 10\text{k}\Omega)$ instead.
- Turn the variable resistor of 10kΩ and confirm that the OVP circuit is activated and luster disappears when +B voltage reads the rated value, 125.0±5.0 VDC.

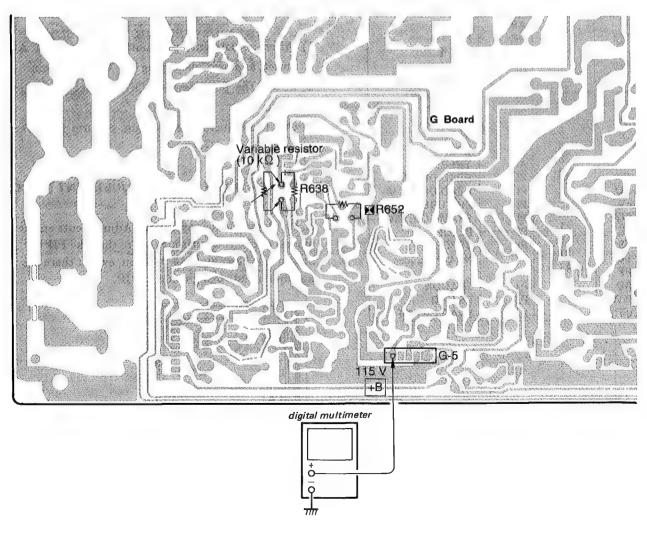
BEAM CURRENT PROTECTOR CHECK (MR852)

- 1. Receive 120 VAC power voltage and monoscope pattern signal. Maximize BRIGHTNESS.
- 2. Connect pin① and pin② of the N-21 connector. (on the N board)
- 3. Remove the jumper connector from the N-8 connector on the N board. Then connect an ABL ammeter between pin ① and pin ② of the N-8 connector.



- 4. Raise PICTURE current gradually. Confirm that the beam current protector circuit is activated and luster disappears under the rated value, $3400 \mu A$.
- 5. Connect pin and pin of the N-21 connector. Verify that the protector circuit is activated and luster disappears similarly.





Checking without static voltmeter

HV HOLD DOWN ADJUSTMENT (☐R900, ☐R901)

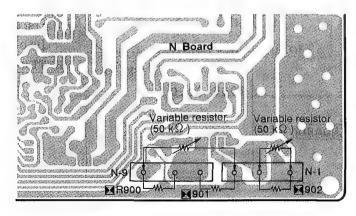
- 1. Receive all-white signal. Maximize PICTURE and 1. BRIGHTNESS.
- Remove R902 from the N board. Connect a variable resistor of $50k\Omega$ on each end, and minimize the resistance.
- 3. Remove R900 and R901 from the N board. Connect a variable resistor of $50k\Omega$ on each end, and minimize the resistance.
- 4. Connect a digital voltmeter between the D801 cathode and chassis ground of the N board.
- 5. Turn on the power switch. Adjust the variable resistors connected to the R902 of the N board to make the digital multimeter to read 145.0VDC.
- 6. Adjust the variable resistors connected to R900 and R901 on the N board so as to activate the HV hold down circuit and turn off the display.
- 7. Read the variable resistors connected to R900 and R901 and mount fixed resistors of measured resistance to the terminals.

Note: Select fixed resistance from the following ranges.

R900: $1k\Omega$ to $12k\Omega$

R901: Jw 100Ω to 820Ω

- Maximize resistance of the variable resistor connected to R902 of the N board and turn on power.
- 9. Vary variable resistance at R902. Confirm that the HV hold down circuit is activated and the display is turned off when voltage reads 134 ± 1.0 V.

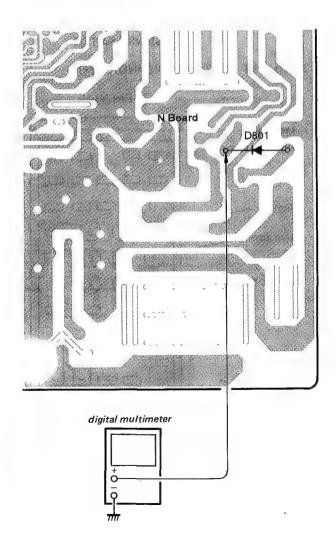


HV REGULATOR ADJUSTMENT (☐R902)

- Receive all-white signal. Maximize PICTURE and BRIGHTNESS.
- Connect a variable resistor of $50k\Omega$ on each end of R902 of the N board. Maximize resistance.
- Connect a digital voltmeter between the D801 cathode and the chassis of the N board.
- Turn on power. Adjust the variable resistor so that the digital multimeter reads $135.0V \pm 1.0V$.
- Read the variable resistance then.
- Mount a fixed resistor of the measured resistance to R902.

Note: R902: Must be $2.2k\Omega$ to $27k\Omega$

Turn on power again. Confirm that the digital multimeter reads $135.0V \pm 1.0V$.



SECTION 5 CIRCUIT ADJUSTMENTS

5-1. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

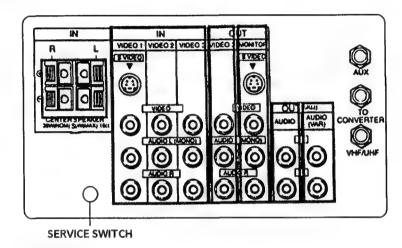
Use of Remote Commander (RM-Y115) can be performed circuit adjustments about this model.

1. METHOD OF SETTING THE SERVICE MODE

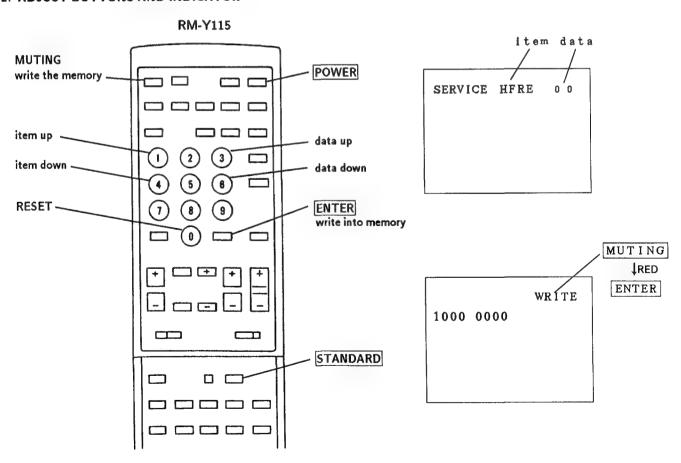
1) Press POWER button on the Remote Commander while pressing switch on the rear of the set.

NOTE: Test Equipment Required.

- 1. Pattern Generator
- 2. Frequency counter
- 3. Digital multimeter
- 4. Audio OSC



2. ADJUST BUTTONS AND INDICATOR



3. AN ITEM OF ADJUSTMENT

ITEM	REFERENCE DATA	NAME REGIST		
AFC	0	VP	AFC 1.0	
HFRE	74	VP	H. FREQUENCE	
VFRE	16	VP	V. FREQUENCE	
HPOS	5	VP	H. PHASE	
GAMP	25	VP	GREEN AMP.	
BAMP	26	VP	BLUE AMP.	
GCUT	9	VP	GREEN CUT OFF.	
BCUT	6	VP	BLUE CUT OFF	
SPIX	40	VP	PICTURE	
SHUE	29	VP	HUE	
SCOL	28	VP	COLOR	
SBRT	11	VP	BRIGHT	
RGBP	28	VP	RGB PICTURE	
SHAR	13	٧,	SHARPNESS	
DISP	24		OUTPUT	
VSMO	0	VP	VSMO	
REF	i	VP	REF 1.0	
1	ī	VP	OFF NR	
ROFF	ī	VP	OFF NG	
GOFF	1	VP	OFF NB	
BOFF	ō	VP	ABLM	
ABLM	Ö	VP	D RGB	
DRGB	Ö	AP	T	
TEST	7	1	ATT	
MPX	31	AP		
FILO	7	AP	11	
DEEM	31	AP	OSC 1	
STEV	31	AP	1	
SAPV	7	AP	OSC 2	
PILO	31	AP	PILOT	
SEP	7	AP	WIDE BAND	
VD	i o	AP	SPECTRAL	
LVOL	0	AP	VOLUME-L	
RVOL	8	AP	VOLUME-R	
BASS	8	AP	BASS	
TRE	32	AP	TREBLE	
PHPO	8	PI	READ DELAY H	
PVPO	6	PI	READ DELAY V	
PLEV	7	PI	PICTURE LEVEL	
PFCO	i	Pi	FRAME COLOR	
PPLL	6	PI	PLLOF	
PPVS	31	PI	VSPDEL	
NRLE	43		NR LEVEL	
DSPP	1	D.	CHADON	
SHAD	l î	PJ	SHADON	
VMSW	16	PJ	RS HAD SHAD CUT OFF	
SCUT		PJ	1 SHAD CUT OFF	

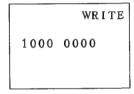
4. METHOD OF CANCELLATION FROM SERVICE MODE

Set the standby condition (Press POWER button on the commander) in the next place, press POWER button again, hereupon it becomes TV mode.

5. METHOD OF WRITE FOR MEMORY

- 1) Set to Service Mode.
- 2) Press 1 (UP) and 4 (DOWN), select an item of adjustments.
- 3) Press MUTING button indicate WRITE (RED) on screen.
- 4) Press ENTER button to write for memory.

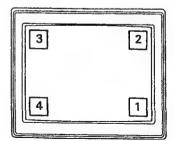
6. MEMORY WRITE CONFIRMATION METHOD



- 1) After adjustment, pull out the plug from AC outlet, and next place, plug in AC outlet again.
- 2) Turn the power switch ON and set to Service Mode.
- Call the adjusted items again, confirm they were adjusted.

7. PUB PICTURE POSITION ADJUSTMENT (PHPO, PUPO)

Note: Before doing any Service Adjustments on the models above you must make sure that the PIP Screen is in the number 1 position, even if there are no adjustments being made to PIP.



PIP Positions

After making adjustments into the PIP 1 position, write the information into the ROM.

Next, unplug the unit and recheck the other three positions. Adjustments made to the number 1 position will affect the other three positions.

5-2. A BOARD ADJUSTMENTS

RF AGC ADJUSTMENT(IF BLOCK VR)

- 1) Input a color-bar signal.
- 2) Adjust AGC VR of TU 101 so that snow noise and cross-modulation disappear from the picture.
- 3) Confirm them at every channel.

H.FREQUENCY ADJUSTMENT (HFRE)

- 1) Set to Service Mode.
- 2) Input a color-bar signal.
- 3) Connect a frequency counter to pin³ of A-10 connector.
- 4) Call the item of AFC, set to 3 level (free run).
- 5) Select HFRE with 1 and 4.
- 6) Adjust 3 and 6 to the 15735 ± 60 Hz level.
- 7) Call the item of AFC again, adjust the level" 01".
- 8) Write into the memory by pressing MUTING → then ENTER.

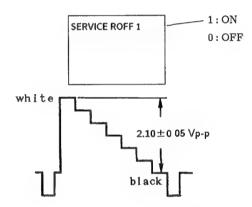
V.FREQUENCY ADJUSTMENT (VFRE)

- 1) Set the Service Mode.
- 2) Input an off-air signal (VIDEO IN → no signal).
- 3) Connect the frequency counter across connector <a>3pin of E 1-1 connector and ground.
- 4) Select VFRE with 1 and 4.
- 5) Adjust 3 and 6 to the 56 ± 0.5 Hz.
- 6) Write the memory by pressing MUTING → then ENTER.

SUB CONTRAST ADJUSTMENT (SPIX)

- 1) Set to Service Mode.
- 2) Input a color-bar signal. (75 IRE)
- 3) Set the conditions as follows.

PICTURE	MAX
COLOR	····· MIN
BRIGHTNESS	$\cdots\cdots$ MIN
TRINITONE	····· LOW
R OFF	ON
GOFF	$\cdots \cdots$ OFF
BOFF	OFF

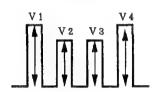


- 4) Connect an oscilloscope to @pin of E1-1 connector on A board and ground.
- 5) Adjust 3 and 6 to the 2.10 ± 0.05 Vp-p level by selecting SPIX with 1 and 4.
- 6) Write the memory by pressing MUTING → then ENTER.
- 7) Return the following back to normal after adjustment.

G OFF	ON
BOFF	ON
COLOR	·· ···· CENTER
BRIGHTNESS	······ CENTER
TRINITONE	······ HIGH
PICTURE	80%

SUB HUE, SUB COLOR ADJUSTMENT (SHUE, SCOL)

- 1) Input a color-bar signal.
- 2) Press STANDARD to normal.
- 3) Set to Service Mode.
- 4) Connect an oscilloscope to pin of E1-1 connector on A board and ground.
- 5) Adjust 3 and 4 to the V1=V4 and V2=V3 by select to SHUE and SCOL with 1 and 4. Lower the data 4 steps from this point.

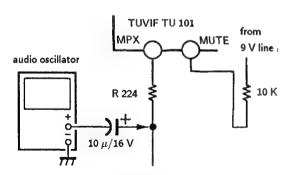


6) Write into the memory by pressing MUTING →then ST VCO ADJUSTMENT (MPX, STEV) ENTER .

FILTER ADJUSTMENT (MPX, FILO)

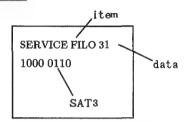
- 1) Set to Service Mode.
- 2) Select to TEST with 1 and 4, set the data to "1". Then select MPX and change data to "08"
- 3) Connect an audio oscillator to R224 using a capacitor $(10\mu \text{ F}/16\text{V})$, set frequency to 62.936 $kHz \pm 0.1 kHz$.

And then, through the $10k\Omega$ resistor, feed 9.0Vinto the mute of TUVIF TU 101.

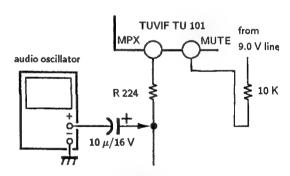


V 4 fh: SINE-WAVE 62 936 KHz ± 0.1 KHz LEVEL 3.0 Vp-p

- 4) Make the data "00" by selecting FILO with 1 and 4 And then, send up the data gradually by pressing 6. Set the data to D1 before SAT3 changing to 1 from 0.
- 5) Send up the data gradually. Set data D2 when SAT3 changes 0 from 1.
- 6) Adjust the data of FILO to $\frac{D \ 1 + D \ 2}{2}$.
- 7) Write into the memory by pressing MUTING then ENTER .

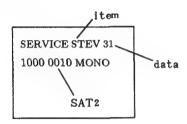


- 1) Set to Service Mode.
- 2) Select TEST with $\boxed{1}$ and $\boxed{4}$, set the data to "1". And then press MTS to MONO.
- 3) Select MPX, set the data "8".
- 4) Connect an audio oscillator to R 224 using electrolytic capacitor ($10\mu \text{ F}/16\text{V}$) and appply the frequency Vst. Then, apply DC voltage to mute of TUVIF TU 101 using 10kΩ connect to 9.0 V line.



Vfh: SINE-WAVE 15.734 KHz ± 0.1 KHz LEVEL 0.28 Vp-p

- 5) Select STEV with 1 and 4, set the data to "00" with 6. And then, send up the data gradually. Set the data to D1 before SAT2 changes from 0 to 1.
- 6) Send up data gradually, set the data to D2 when SAT2 changes 1 from 0.
- 7) Adjust the data of STEV to (D 1+D 2)/2.
- 8) Write into the memory by pressing MUTING → then ENTER.



MPX IN LEVEL ADJUSTMENT (MPX)

- 1) Set to Service Mode.
- 2) Select TEST with 1 and 4, set the data to "0" with 6. And then press MTS to MONO.
- 3) Select MPX with 1 and 4, set the data to "8" with 3 and 6.
- 4) Write into the memory by pressing MUTING → then ENTER .

PILOT CANCEL ADJUSTMENT (PILO)

- 1) Set to the Service Mode.
- 2) Select PILO with 1 and 4, set the data to "8" with 3 and 6.
- 3) Write into the memory by pressing MUTING

 → then ENTER .

SAP VCO fo ADJUSTMENT (SAPV)

- 1) Set to Service Mode.
- 2) Input a stereo broadcast signal with SAP.
- 3) Select TEST with 1 and 4, set the data to "0".

 And then, press MTS to MAIN.
- 4) Connect a digital multimeter to TP-1(DBX). This voltage reading will equal V 1.
- 5) Press MTS to SAP and this voltage will equal V 2.
- 6) Select SAPV with 1 and 4, adjust 3 and 6 so that V 2=V 1±0.03 VDC.
- 7) Write the memory by $\boxed{\text{MUTING}} \rightarrow \boxed{\text{ENTER}}$.

SEPARATION ADJUSTMENT (SEP)

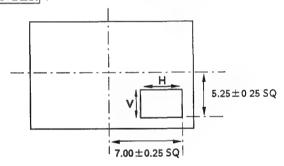
- 1) Set to Service Mode.
- Press MTS to MAIN and receive a monoral broad -cast signal.

In the next step, receive a stereo broadcast signal.

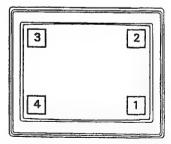
3) Select SEP and VD with 1 and 4, adjust 3 and 6 so that a clear stereo sound is effected.

SUB PICTURE POSITION ADJUSTMENT (PHPO, PVPO)

- 1) Input a cross hatch signal.
- 2) Set to service mode.
- 3) Press PIP to display a sub picture. (RIGHT LOWER Position)
- 4) Select PHPO, PVPO with 1 and 4
- 5) Adjust 3 and 6 to the standard as shown below.
- 6) Write the memory by pressing MUTING → then ENTER.



Note: Before doing any Service Adjustments on the models above you must make sure that the PIP Screen is in the number 1 position, even if there are no adjustments being made to PIP.

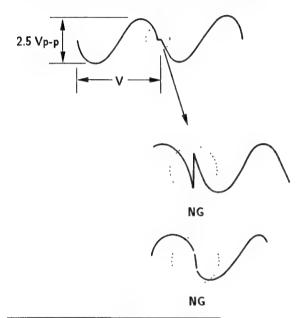


After making adjustments into the PIP 1 position, write the information into the ROM.PIP Positions Next, unplug the unit and recheck the other three positions. Adjustments made to the number 1 position will affect the other three positions.

5-3. DS BOARD ADJUSTMENTS

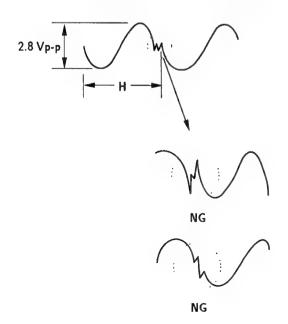
V. 3 WAVE ADJUSTMENT (RV983)

- 1) Input a color-bar signal.
- 2) Connect an oscilloscope IC1712 Pin of DS board ground.
- 3) Adjust RV983 as shown the following figure.

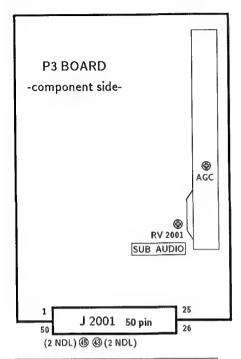


H. 3 WAVE ADJUSTMENT (RV984)

- 1) Input a color-bar signal.
- 2) Connect an oscilloscope IC1712 Pin① of DS board ground.
- 3) Adjust RV984 as shown the following figure.



5-4. P3 BOARD ADJUSTMENTS



RF AGC ADJUSTMENT(IF BLOCK VR)

- 1) Input a color-bar signal.
- 2) Set to PICTURE IN PICTURE mode.
- 3) Adjust AGC VR of TU 2001 so that snow noise and cross-modulation disappear from the picture.
- 4) Confirm them at every channel.

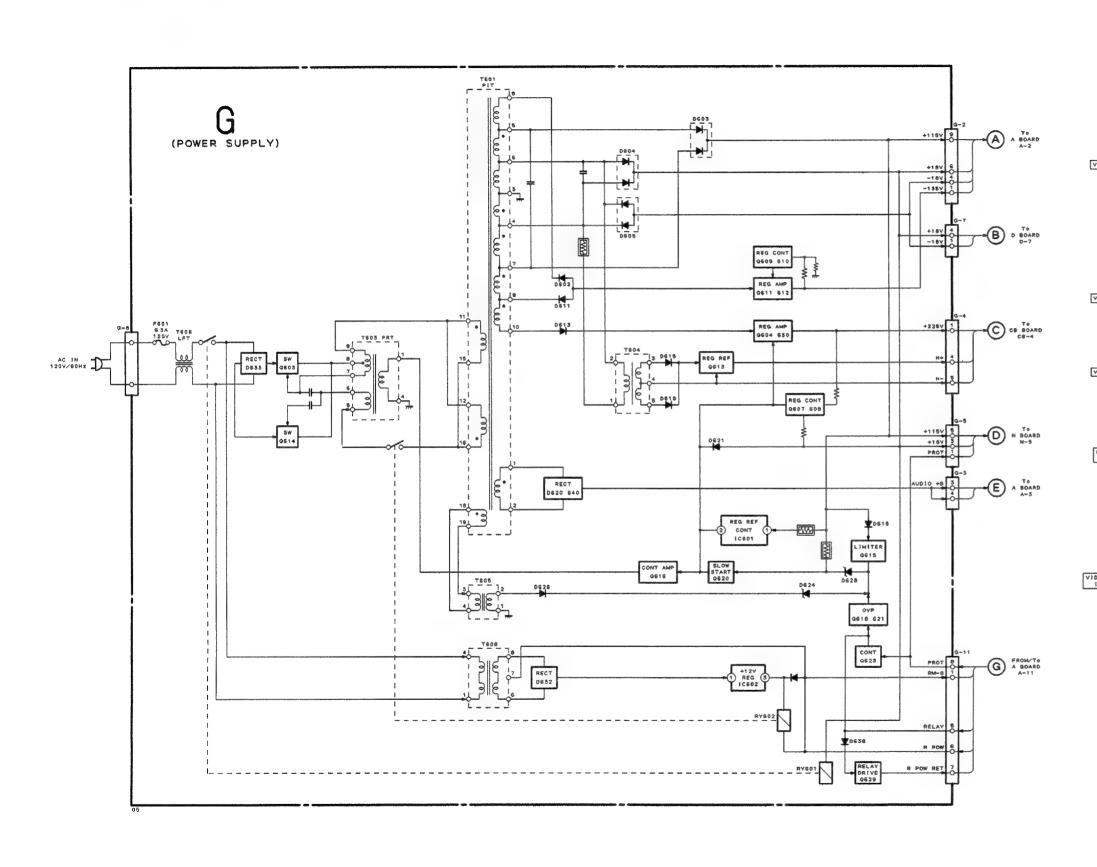
SUB PICTURE SOUND VOLUME LEVEL (SUB AUDIO) ADJUSTMENT(RV2001)

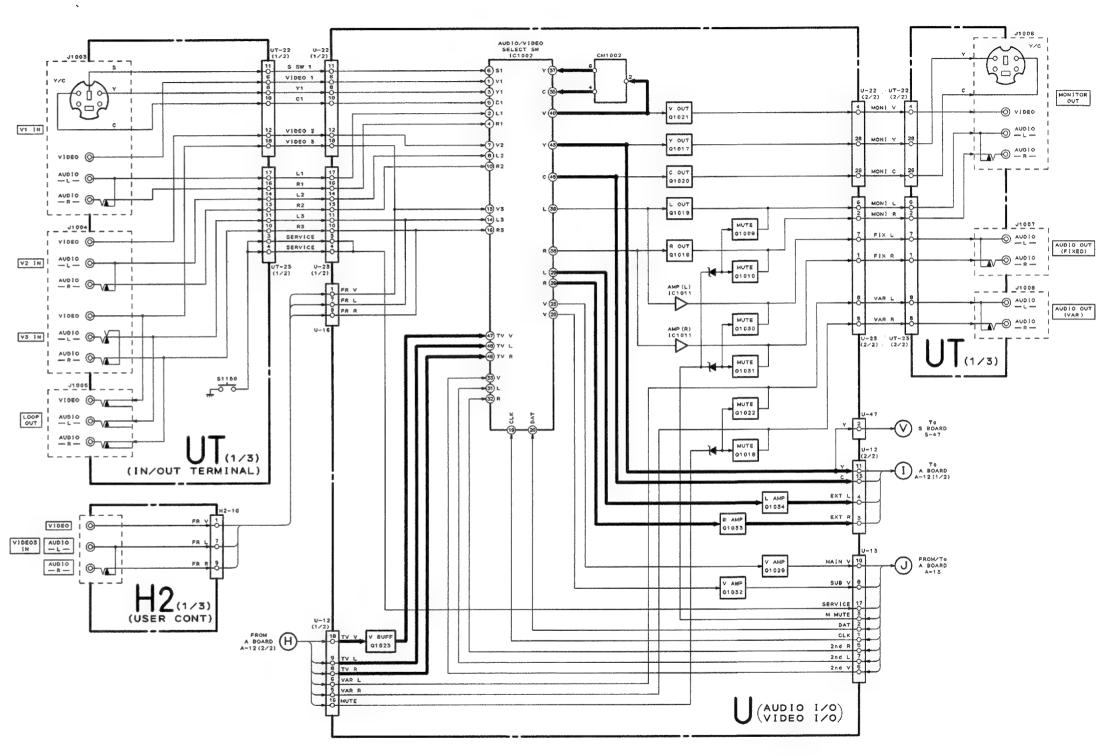
- 1) Receine an audio signal of 400 Hz. (100% mod.)
- 2) Adjust RV 2001 for the following level at Pin 43 (2 NDR) or Pin 45 (2 NDL) of J 2001.

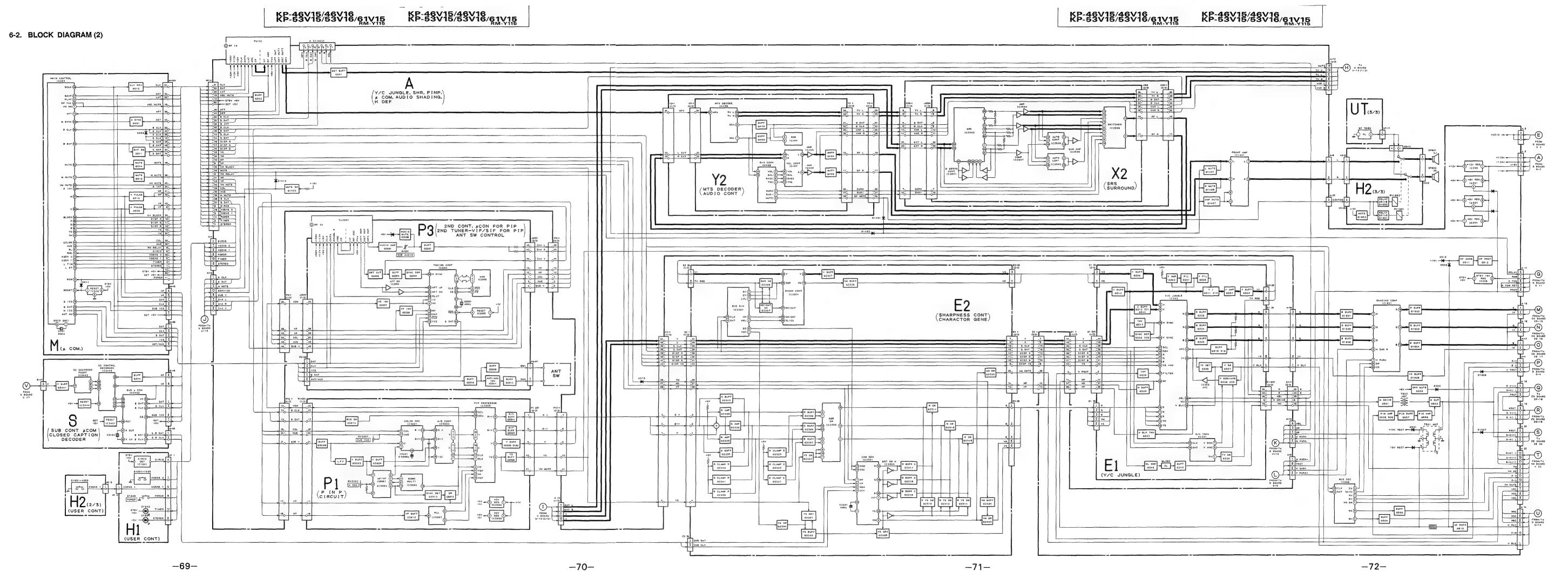
 $500 \text{ mVrms} \pm 2 \text{ dB}$

MEMO
m + + + + + + + + + + + + + + + + + + +
man i manana i manana manan

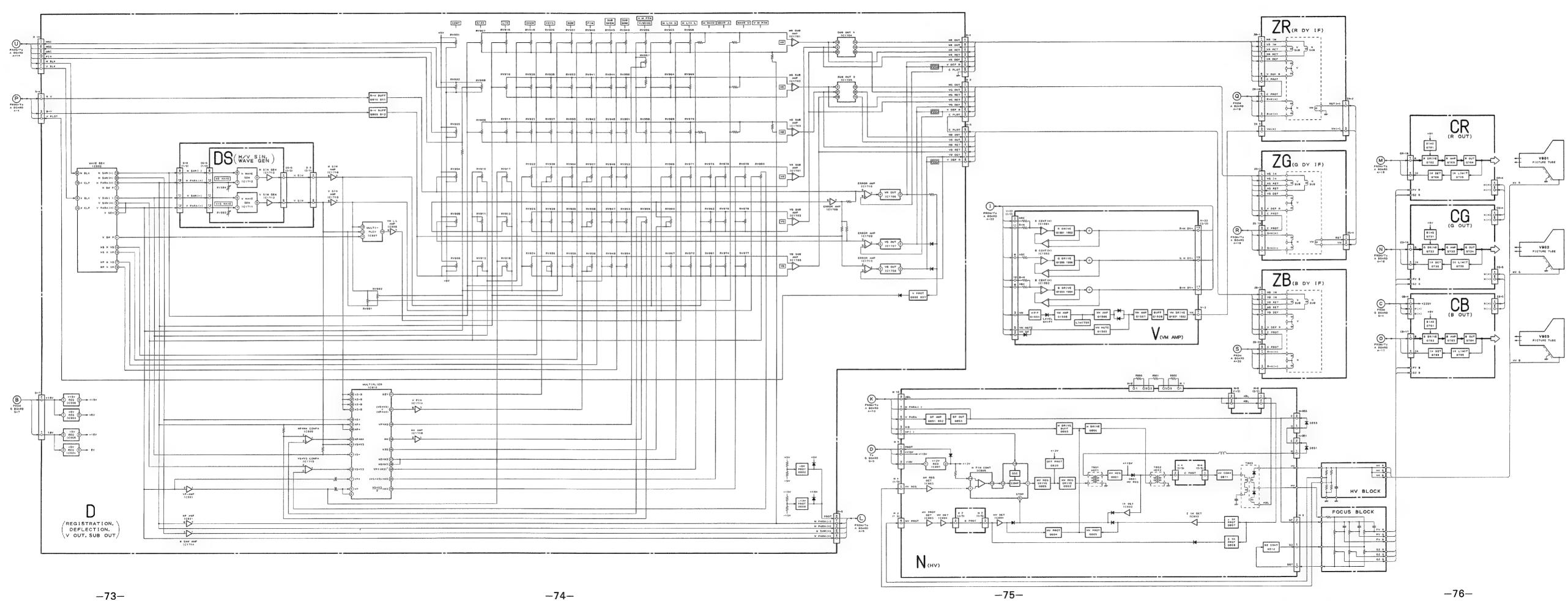
6-1. BLOCK DIAGRAM (1)

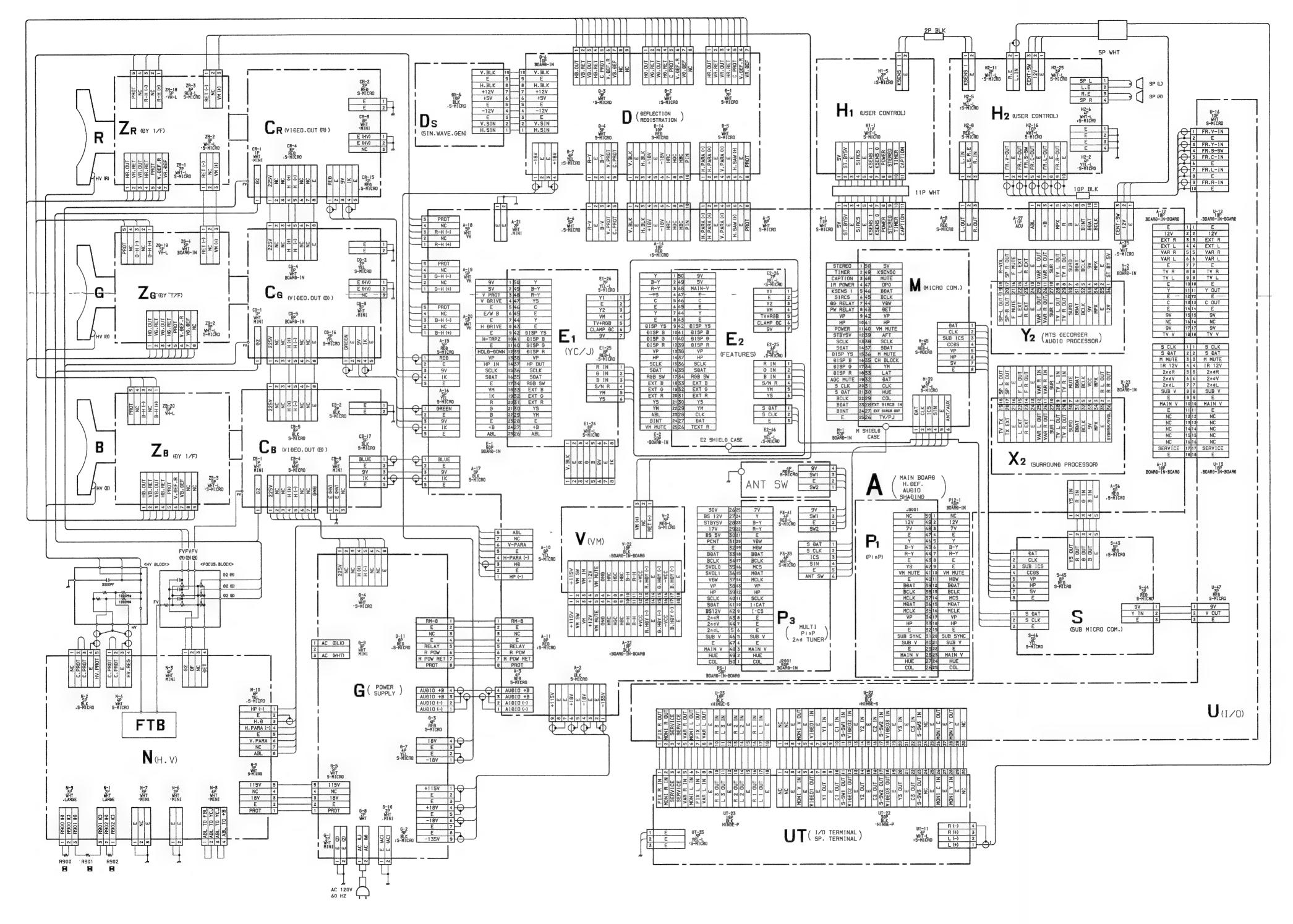






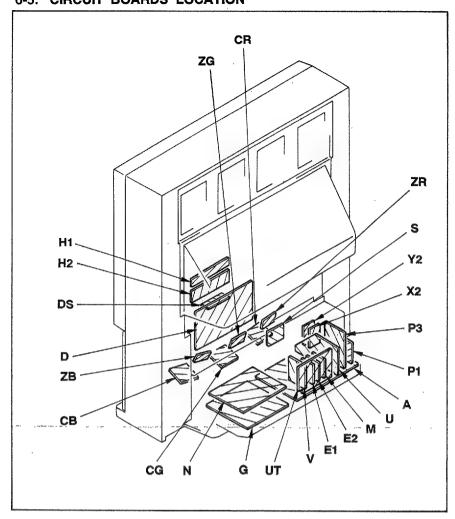
6-3. BLOCK DIAGRAM (3)





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6-6. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

All capacitors are in μF unless otherwise noted. pF: μμF

- 50 WV or less are not indicated except for electrolytic and tantalums.
 All resistors are in ohms.
- $k\Omega = 1000 \Omega$, $M\Omega = 1000 k\Omega$
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power 1/4 W

- nonflammable resistor
- fusible resistor.
 internal component.
- panel designation, or adjustment for repair.
 All variable and adjustable resistors have characteristic curve B,
- unless otherwise noted.
- have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value
- originally used.

 ◆ When replacing components identified by ☐ , make the
- necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved. (Refer to R652, R852, R900, R901, and R902 adjustment on
- When replacing the part in below table, be sure to perform the related adjustment.

Part replaced ()	Adjustment (►)
HV Block IC803, IC805, D805, D807, C817, C818, C821, C836, C837, R824, R825, R827, R828, R834, R835, R836, R864, R865, R866, R902	HV Regurater (R902)
HV Block IC803, IC804, Q804, D806, D808, C809, C819, C820, C822, C823, C850, R807, R826, R829, R832, R833, R837, R838, R839, R840, R841, R892, R893, R900, R901	HV Hold down (R900, R901)
Q618, Q621, D628, C634, R639, R649, R652, R655, R656 Board	OVP (R652)
① IC802, Q805, Q807, D811, D812, C810, C824, C825, C826, C827, C831, R810, R843, R844, R847, R848, R849, R850, R851, R852, R853, R854, R881 ② IC804, Q804, Q808, D808, D809, C809, C828, C829, C830, C831, R807, R839, R840, R841, R847, R848, R849, R850, R851, R852, R855, R856, R857, R881	Beam current protecter ① R852 ② R852

Reference information

- RESISTOR : RN METAL FILM : RC SOLID
 - : FPRD NONFLAMMABLE CARBON : FUSE NONFLAMMABLE FUSIBLE
 - NONFLAMMABLE METAL OXIDE NONFLAMMABLE CEMENT
- : RW NONFLAMMABLE WIREWOUND
 : ※ ADJUSTMENT RESISTOR
 IL : LF-8L MICRO INDUCTOR
- CAPACITOR : TA TANTALUM
 - PS STYROL
 PP POLYPROPYLENE
 - MYLAR
 - : MPS METALIZED POLYESTER
 : MPP METALIZED POLYPROPYLENE
 - : ALB BIPOLAR
 - : ALT HIGH TEMPERATURE
- : ALR HIGH RIPPLE

 Readings are taken with a color-bar signal input.
- Readings are taken with a 10MΩ digital multimeter.
 Voltage are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production
- All voltages are in V.
- * : Can not be measured.• Circled numbers are waveform references.
- B+ bus.
- signal path. (RF)

Note: The symbol 🖅 display is on the component side.

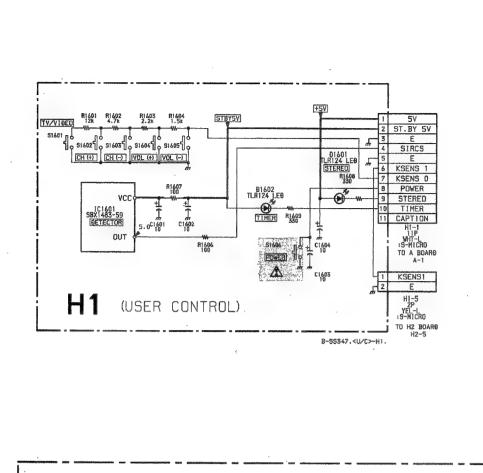
The components identified by shading and mark $\, \underline{\mathbb{A}} \,$ are critical for safety. Replace only with part number specified.

The symbol - indicate fast operating fuse.
Replace only with fuse of same rating as marked.

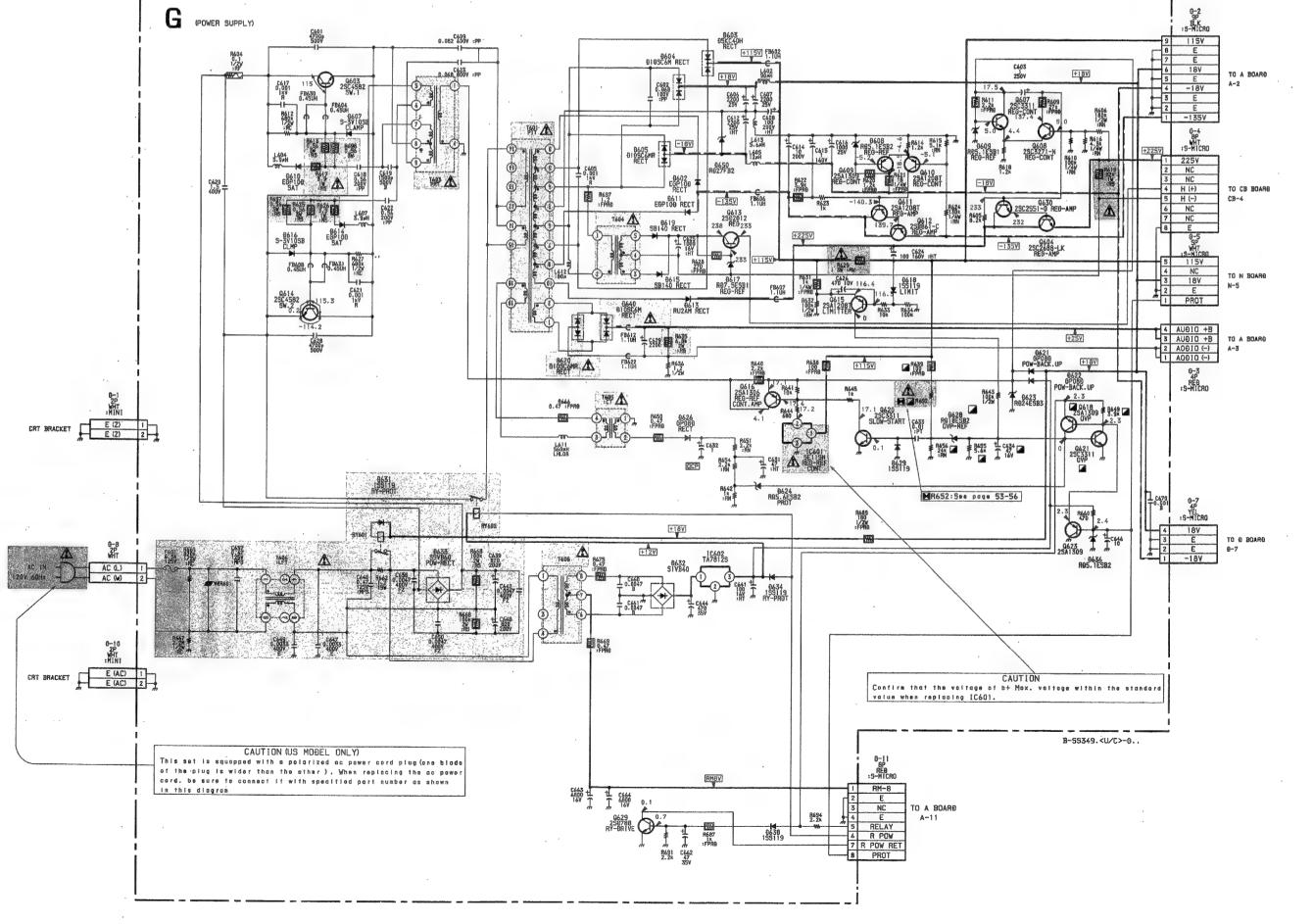
Note: Les composants identifiés per un tramé et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro

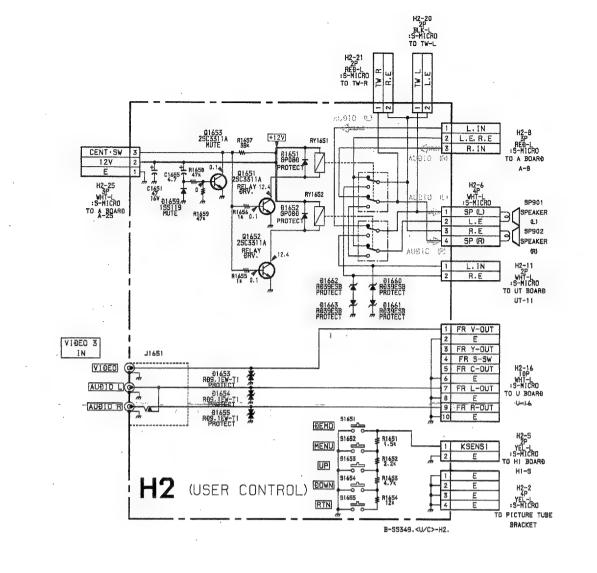
Le symbole imindique une fusible a action rapide.

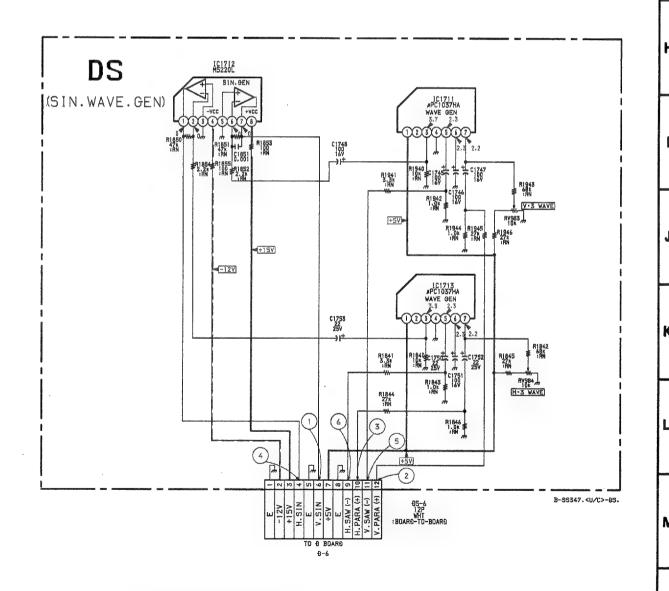
Doit etre remplacee par une fusible de meme yaleur,
comme maque.



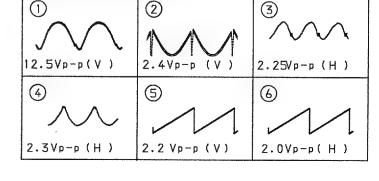
(1) SCHEMATIC DIAGRAMS OF G, H1, H2 AND DS BOARDS







DS BOARD WAVEFORMS



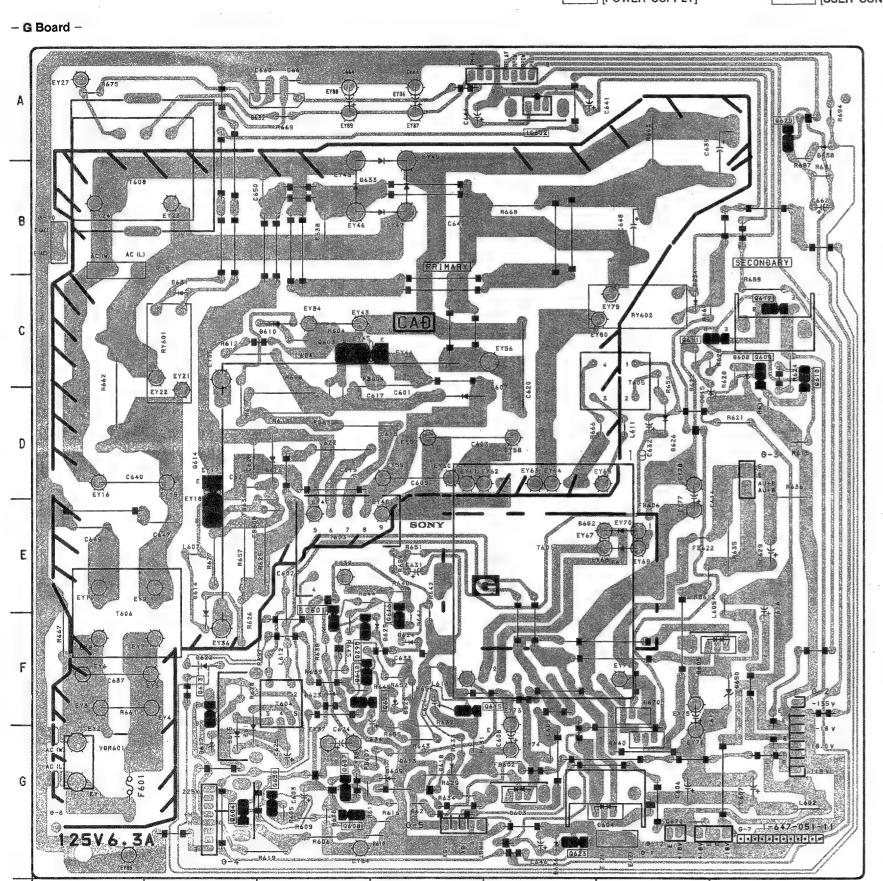
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

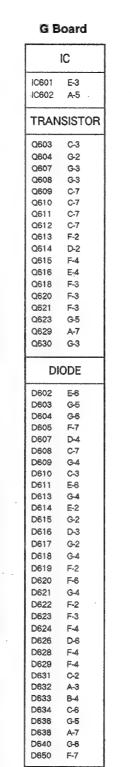




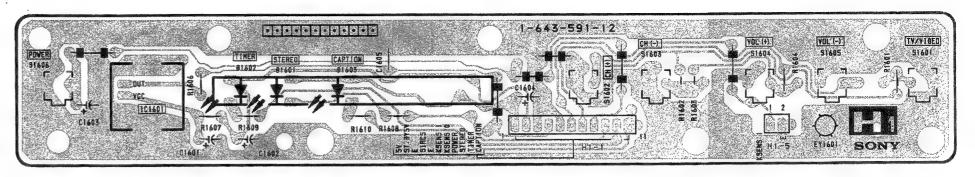




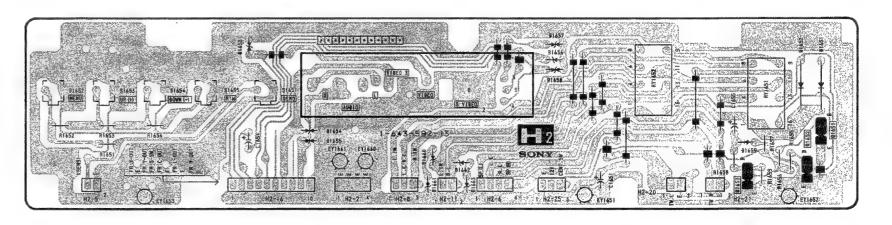




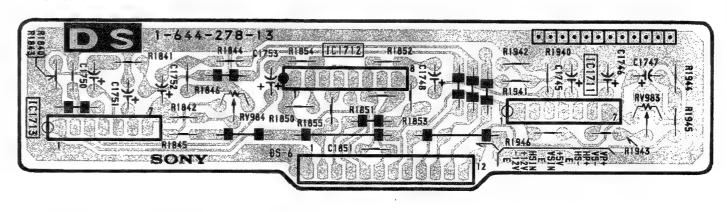
- H1 Board -



- H2 Board -

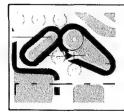


- DS Board -



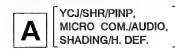
A Board

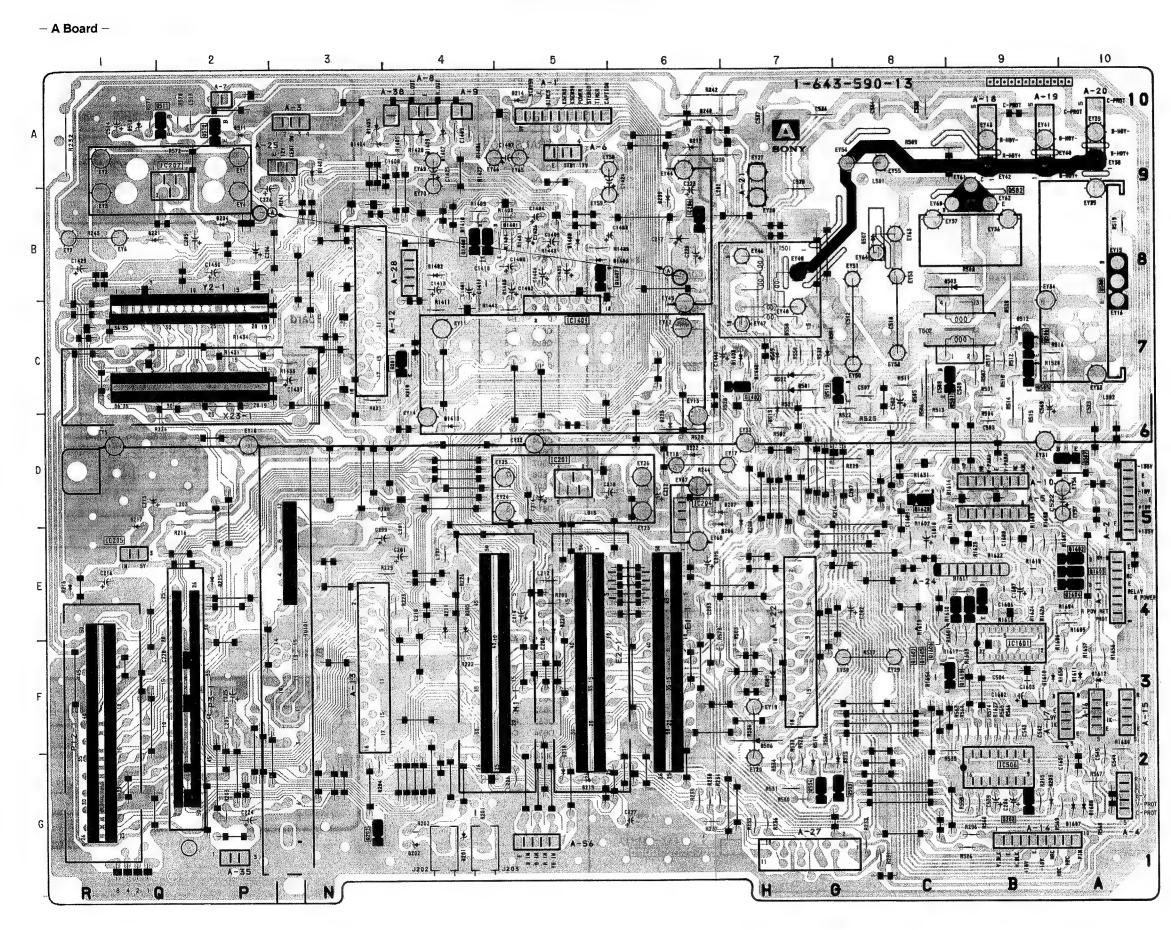
					_
	IC	С	D211 D213	E-4 A-6	
ŀ	1024	5.5	D214	A-5	
	IC201	D-5	D214 D215	A-3 E-2	
	IC204	D-6	D215 D216	E-2 E-1	
- [IC205	E-1	D216 D217	E-1	
- [IC206	B-6			
-1		A-2	D219	G-5	
- [IC506	G-9	D220	E-5	
- [C-5	D221	B-1	
-	IC1601	F-9	D222 D223	D-6 D-6	
	TRANS	SISTOR	D501 D502	C-7 C-7	
- 1	Q201	C-4	D503	B-9	
	Q202	G-3	D504	C-7	
	Q202	G-9	D505	F-7	
			D506	F-7	
	Q501	C-9 R-9	D507	B-8	
	Q502	B-9	D507	C-7	
	Q504	G-7	D509	C-7 A-1	
	Q505	C-9	D510		
	Q506	C-9		A-2	
-	Q507	D-10	D512	C-9	
-	Q508	B-10	D513	D-7	
-	Q509	G-8	D514	G-7	
	Q510	C-8	D515	G-8	
	Q511	A-2	D1401	A-3	
	Q512	A-2	D1402	B-4	
	Q1401	B-4	D1403	C-7	
	Q1402	C-7	D1404	A-3	
	Q1407	B-5	D1405	A-3	
	Q1408	B-4	D1406	B-5	
	Q1601	E-9	D1407	A-4	
	Q1602	E-10	D1408	B-5	
	Q1603	E-10	D1409	A-4	
	Q1604	E-10	D1410	D-4	
	Q1605	E-9	D1607	G-10	
	Q1606	E-9	D1608	G-10	
	Q1620	D-8			
			-		
	DIODE				
	D203	G-9			
	D204	B-2	1		
	D205	E-4			
	D206	D-7			
	D207	D-7	1		
	D208	E-7	1		
	D209	B-6			
	L				

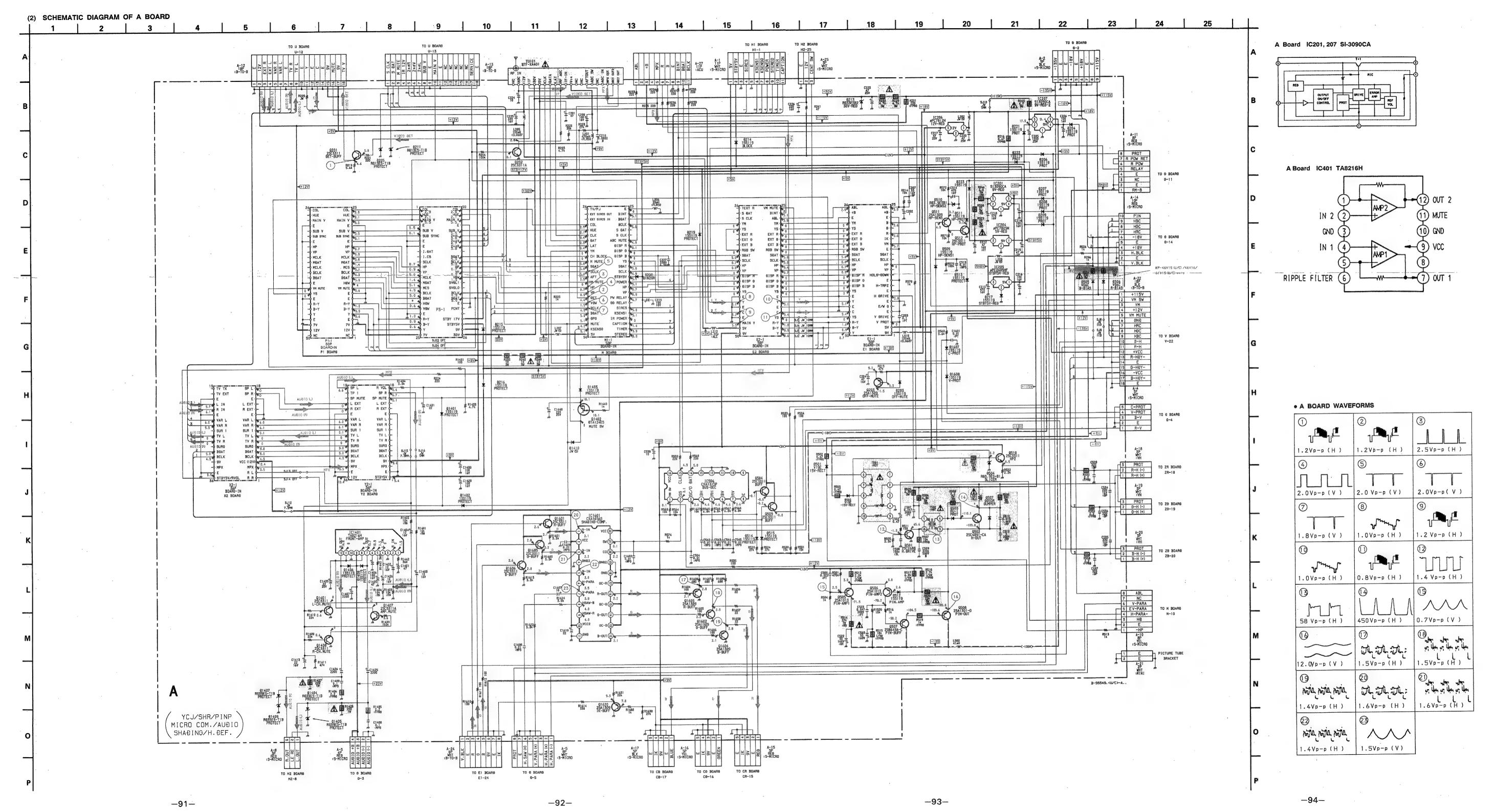


NOTE:

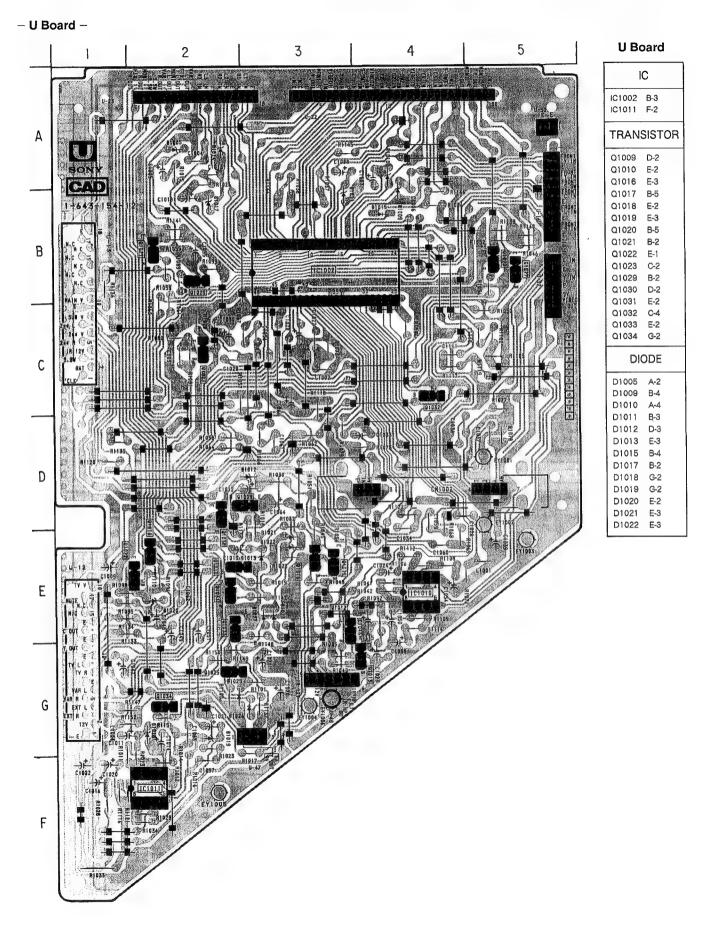
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



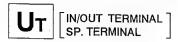




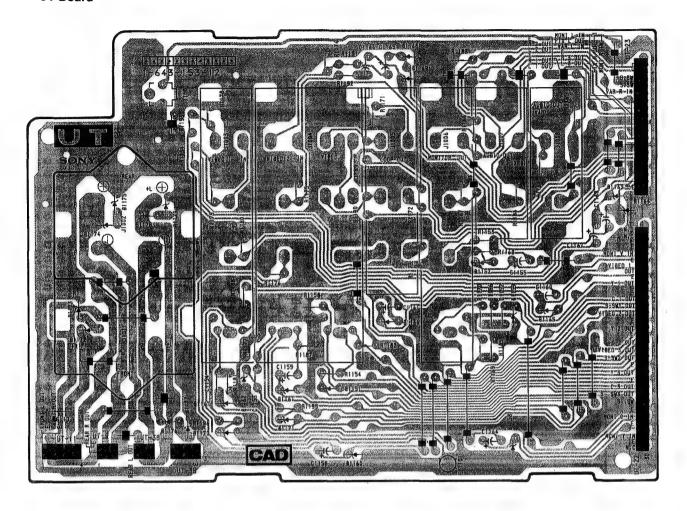




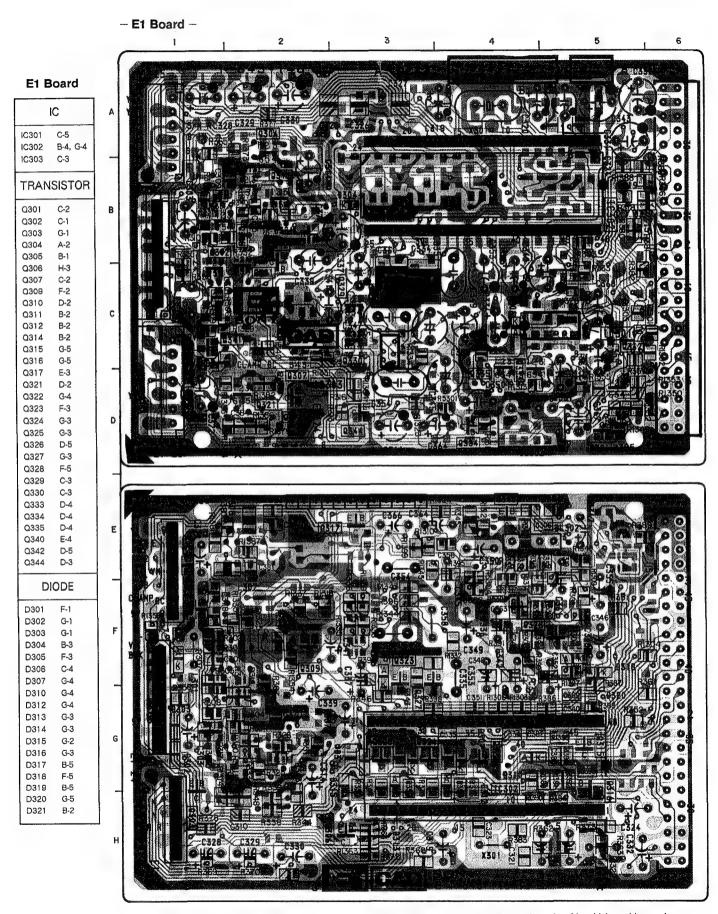
KP-46V15/46V16 KP-53V15/53V16/61V15



- UT Board -



E1 [Y/C JUNGLE]

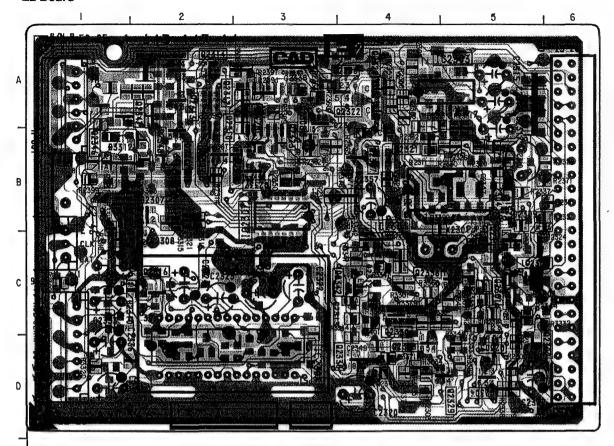


[:] Pattern of the rear side.



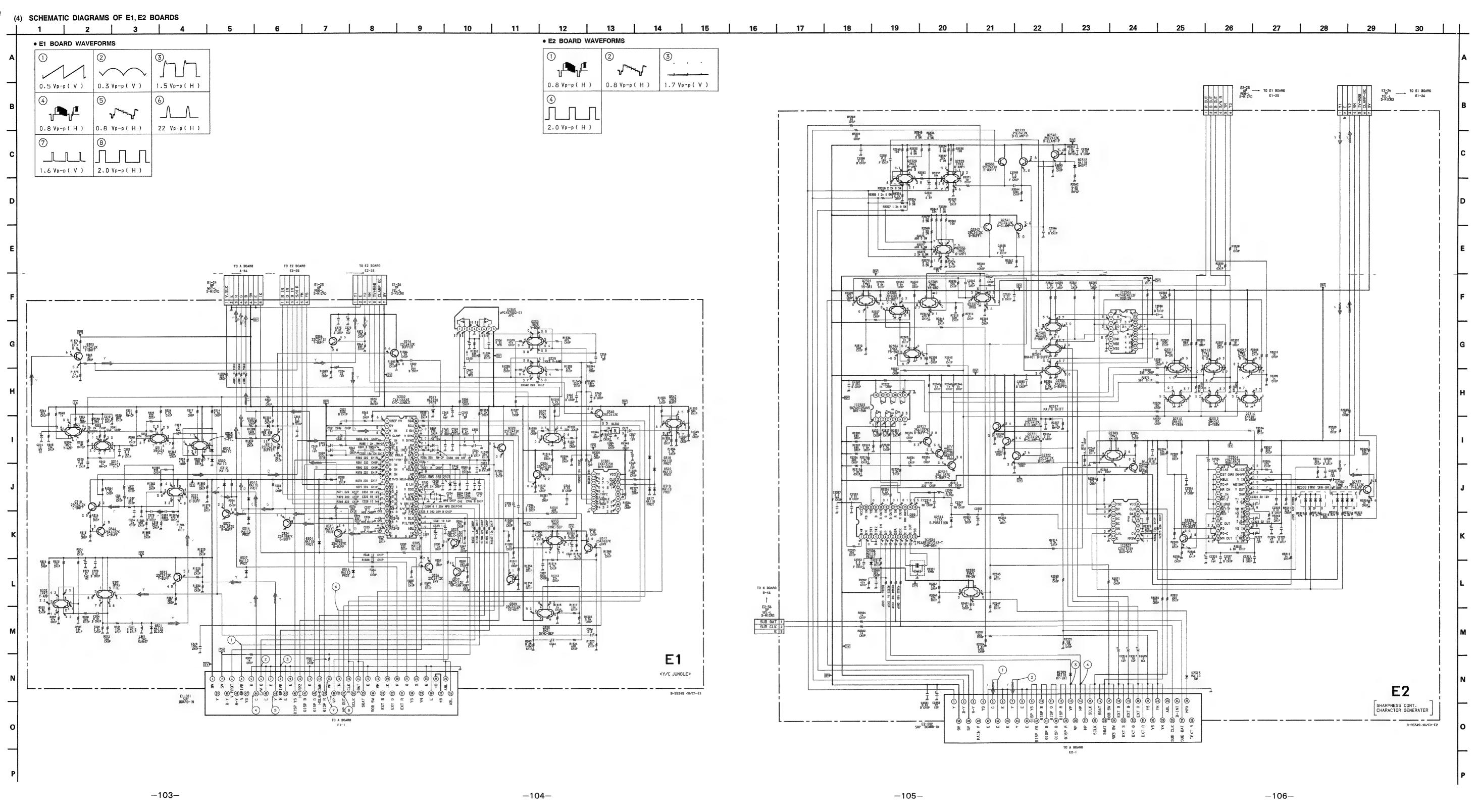
SHRPNESS CONT, CHARACTOR GENERATER

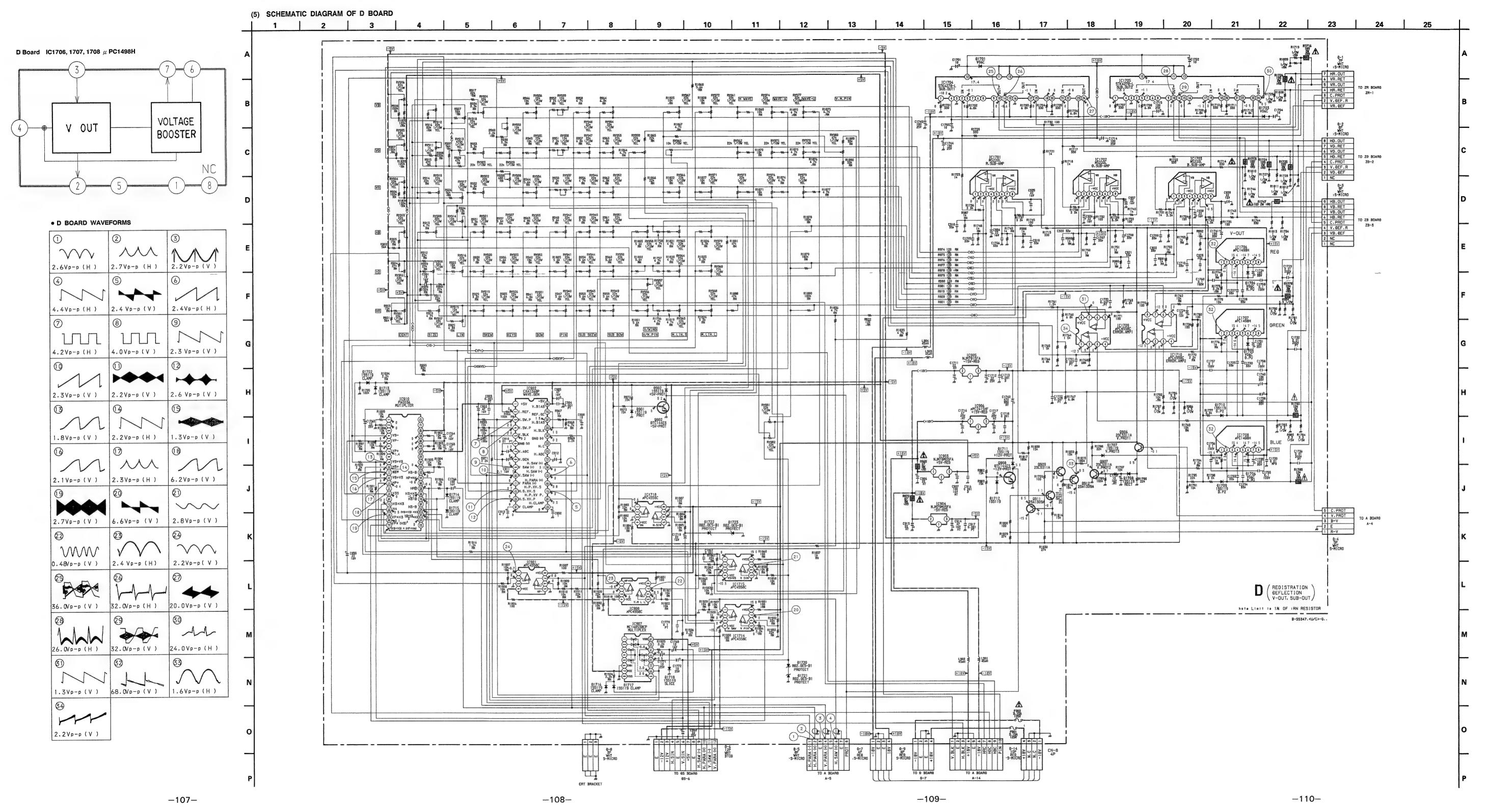
- E2 Board -

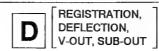


E2 B	oard
1	С
IC2031 IC2303 IC2304 IC2306 IC2307	B-4 A-5 D-3, E-2 H-3 B-3
TRAN	SISTOR
Q2301 Q2303 Q2304 Q2305 Q2306 Q2307 Q2308 Q2310 Q2311 Q2312 Q2313 Q2314 Q2315 Q2317 Q2318 Q2319 Q2320 Q2321 Q2322 Q2324 Q2326 Q2327 Q2328 Q2329 Q2330 Q2336 Q2337 Q2339 Q2341	C-5 C-5 C-5 C-5 A-3 B-4 A-2 A-2 A-2 A-2 A-2 A-2 A-2 A-2 A-2 A-2
DIC	ODE
D2306 D2307 D2308 D2309 D2312 D2313 D2314 D2317	C-5 B-2 B-2 B-5 C-4 C-4 B-5 A-4

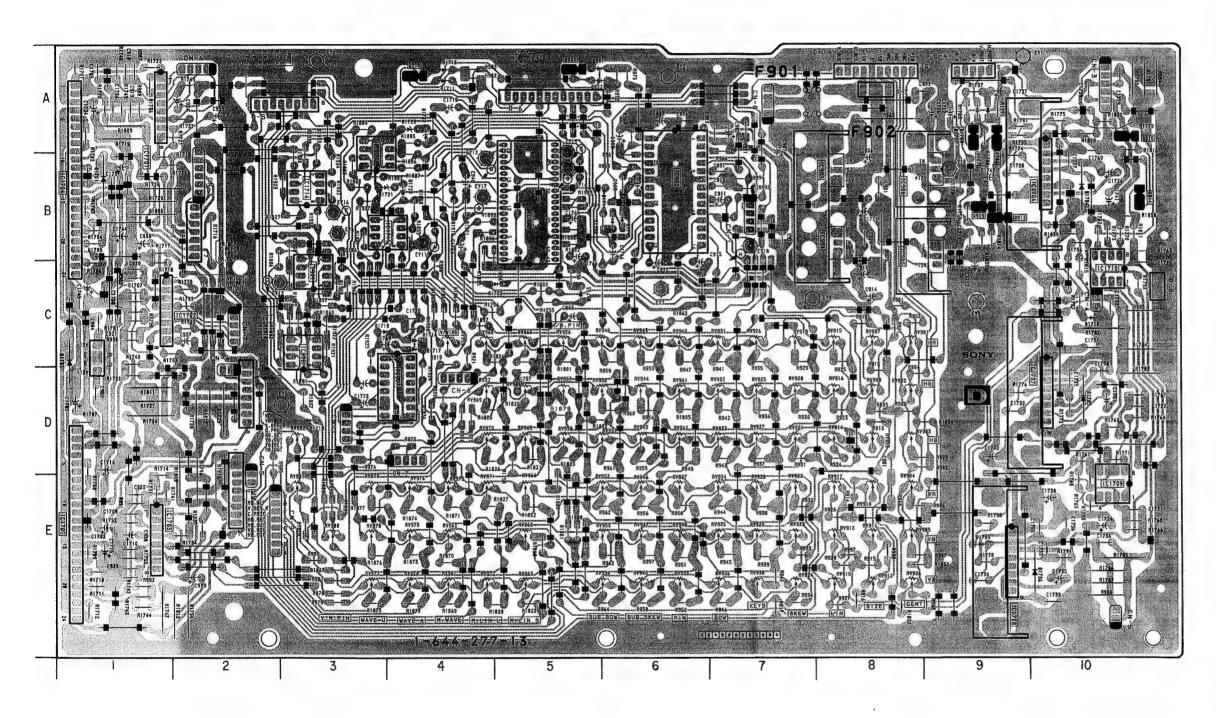
- : Pattern from the side which enables seeing.
- Pattern of the rear side.







- D Board -



D Board

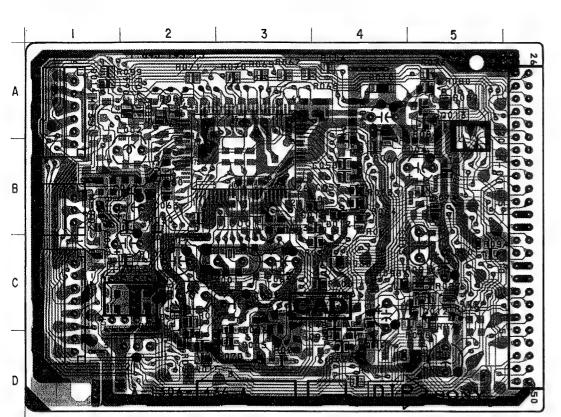
D Board				
IC	VARIABLE RESISTOR	RV962 E-4 RV963 C-5		
IC901 C-3 IC902 B-6 IC903 B-8	RV901 C-9 RV902 D-9 RV903 D-9	RV964 D-5 RV965 D-5 RV966 E-5		
IC904 B-8 IC905 B-9	RV904 E-9 RV905 D-9	RV967 E-5 RV968 C-5 RV969 D-5		
1C906 B-9 1C907 D-4 1C908 C-3	RV906 E-9 RV907 C-8 RV908 D-8	RV970 D-5 RV971 E-5		
IC910 B-5 IC1701 A-1	RV909 D-8 RV910 E-8	RV972 E-5 RV973 E-4 RV974 E-4		
IC1702 C-2 IC1703 E-1 IC1704 B-1	RV911 E-8 RV912 E-8 RV913 E-8	RV975 E-4 RV976 E-4		
IC1705 E-1 IC1706 B-10	RV914 D-8 RV915 C-8	RV977 E-3 RV978 E-3 RV979 E-3		
IC1707 D-10 IC1708 E-9 IC1709 E-10	RV916 D-8 RV917 E-8 RV918 E-8	RV980 E-3 RV981 E-3		
IC1710 C-10 IC1714 B-3 IC1715 B-4	RV919 C-7 RV920 D-7 RV921 D-7	RV982 D-3		
TRANSISTOR	RV922 E-7 RV923 E-7 RV924 E-7			
Q902 A-5	RV925 D-7 RV926 C-7			
Q906 A-9 Q907 A-9 Q908 A-4	RV927 D-7 RV928 E-7 RV929 E-7			
Q909 D-9 Q910 A-10	RV930 E-7 RV931 C-7			
Q911 B-10 Q912 B-9	RV932 D-7 RV933 D-7 RV934 E-7			
DIODE	RV935 E-7 RV936 E-7			
D901 A-6 D902 A-6 D1701 B-1	RV937 E-6 RV938 E-6 RV939 E-6			
D1702 C-5 D1703 C-1	RV940 C-6 RV941 D-6			
D1704 B-10 D1075 D-10 D1706 E-10	RV942 D-6 RV943 C-6 RV944 D-6			
D1707 A-9 D1708 A-9 D1709 E-9	RV945 D-6 RV946 E-6 RV947 E-6			
D1710 C-10 D1711 A-4	RV947 E-6 RV948 E-6 RV949 C-6			
D1712 A-4 D1713 C-5	RV950 D-6 RV951 D-6			
D1714 B-6 D1715 B-6 D1716 C-4	RV952 E-6 RV953 E-6 RV954 E-6			
D1717 C-4 D1718 C-4	RV956 C-5 RV957 D-5			
D1720 B-4 D1721 B-4 D1722 A-4	RV958 D-5 RV959 C-4 RV960 E-5			
D1723 A-4	RV961 E-4			

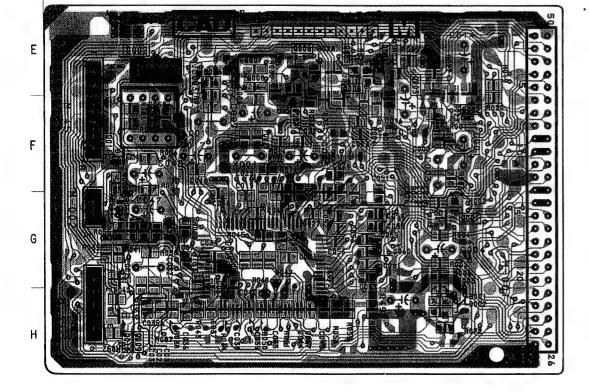
M [MAIN CONTROL, μ -CON]

N [H. V]

- N Board -

- M Board -





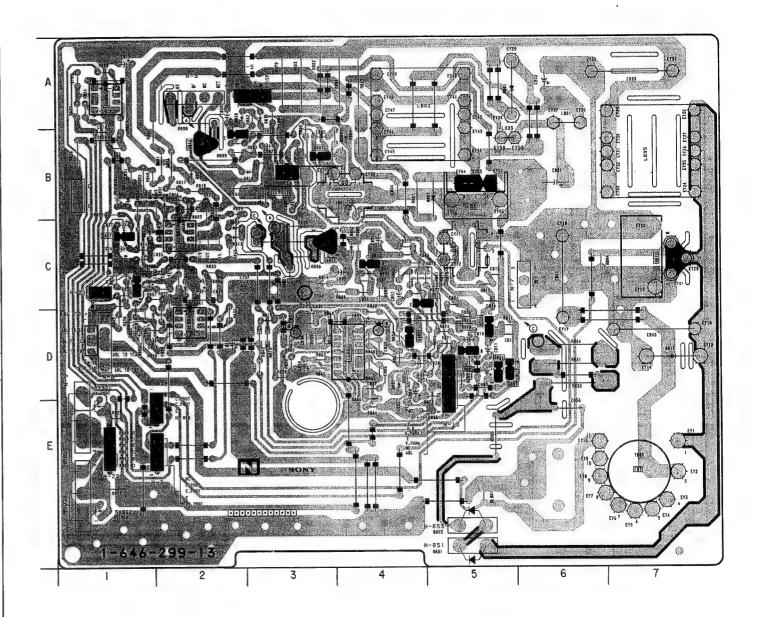
- Pattern from the side which enables seeing.
- Pattern of the rear side.

N Board

IC		
B-3		
C-2		
A-1		
D-2		
D-4		
	B-3 C-2 A-1 D-2	

I	TRAN	ISISTOR
	Q801	B-5
ı	Q802	B-3
	Q803	D-6
ı	Q804	D-5
ı	Q805	D-5
ı	Q806	D-5
i	Q807	C-1
	Q808	C-1
ı	Q809	D-4
	Q811	C-7
Ì	Q812	B-2
	Q820	B-3
	Q851	C-5
	Q852	C-4
	Q853	C-4

DI	ODE	
D801	A-6	
D802	B-5	
D803	B-2	
D804	C-2	
D805	B-2	
D806	C-2	
D807	D-4	
D808	D-2	
D809	D-1	
D810	D-3	
D811	B-1	
D812	C-2	
D813	C-2	
D814	A-3	
D815	D-3	
D817	D-7	
D818	B-3	
D820	A-3	
D850	C-4	
D851	E-5	
D852	C-4	
D853	E-5	
D891	B-2	
D892	C-2	



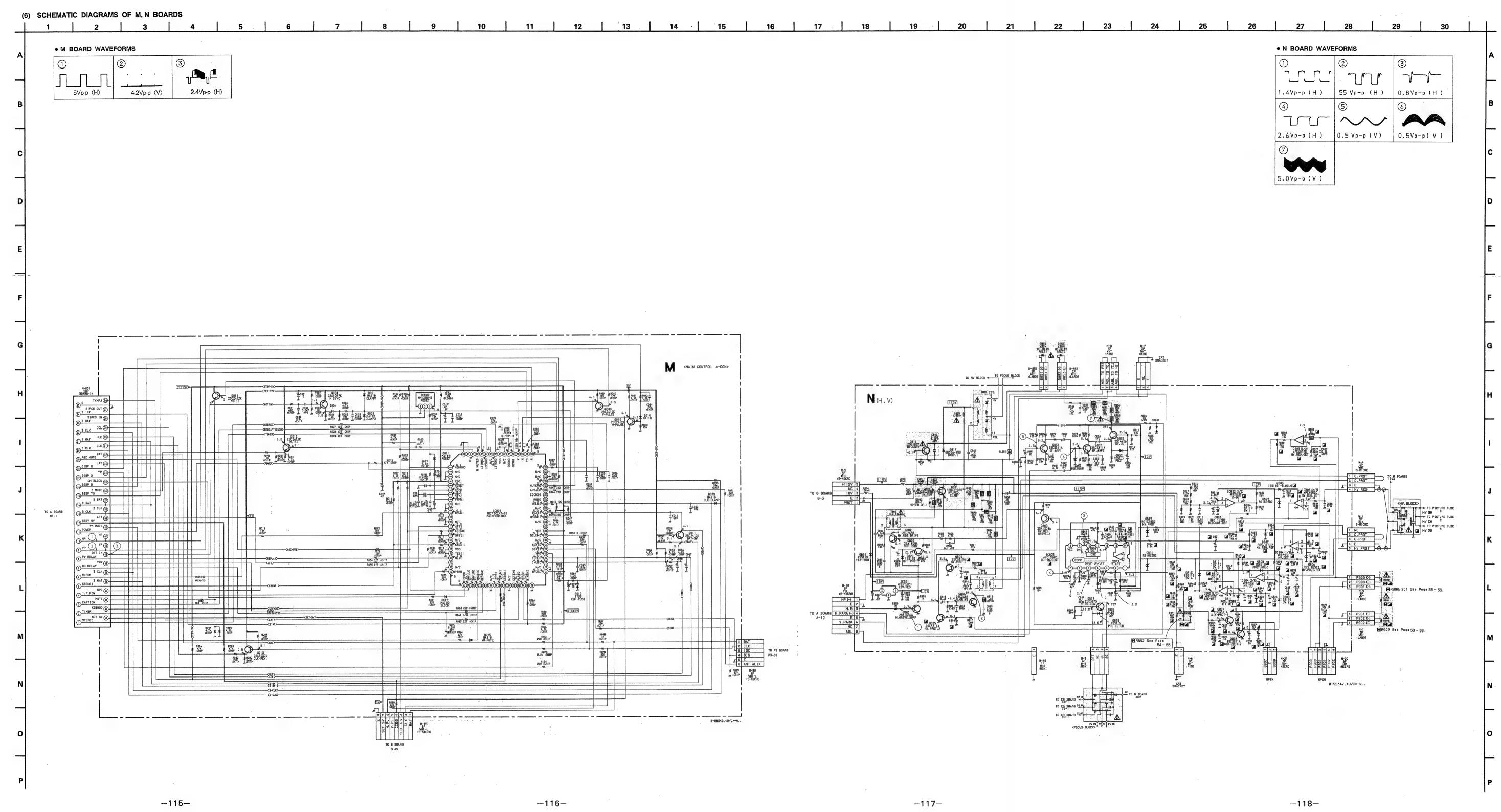
M Board

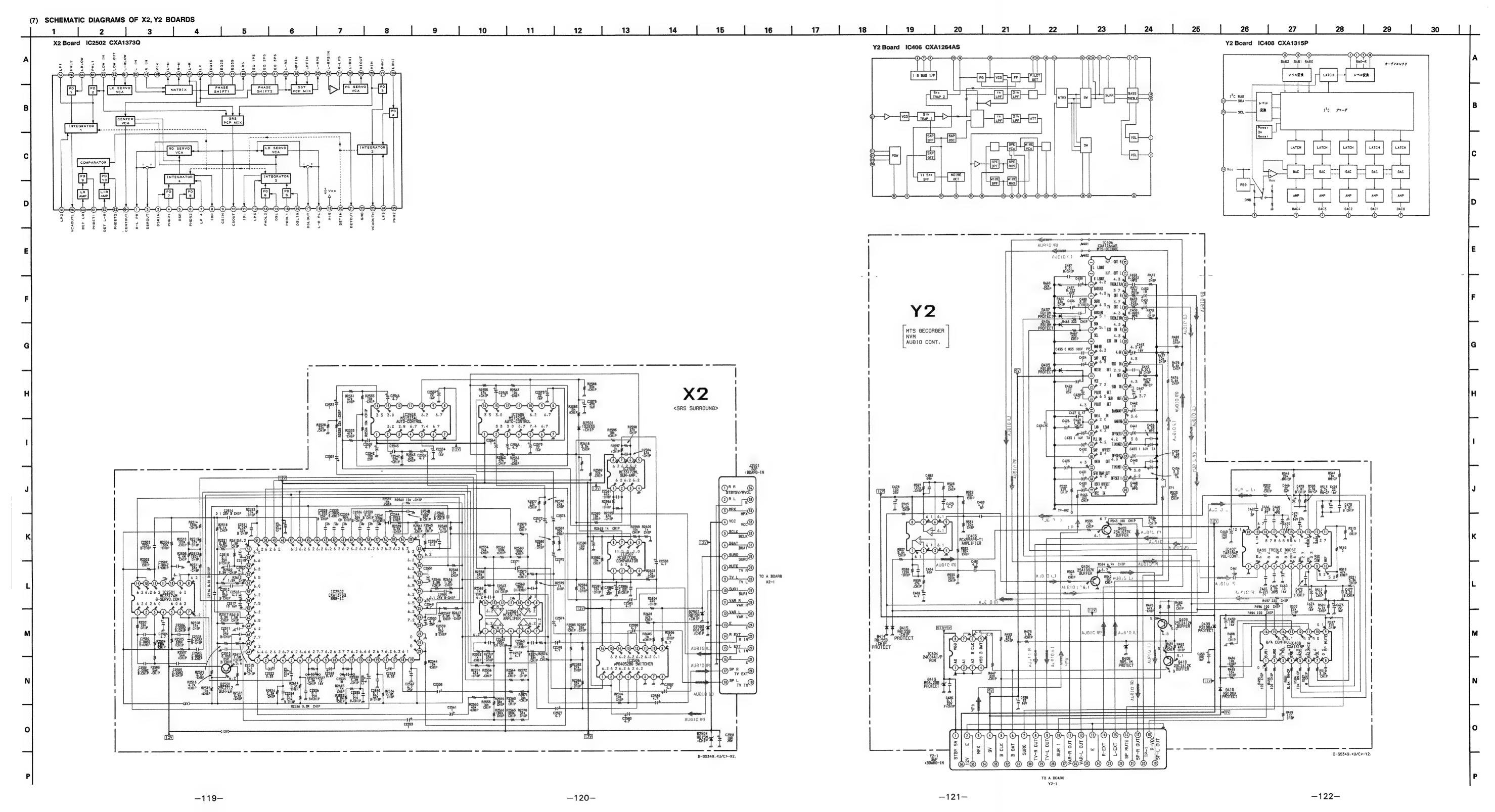
IC		DIODE		
IC001 IC002	C-1 D-2, E-2	D001 D002 D009	H-5 H-5 F-1	
TRAN	SISTOR	D010 D011	A-4 D-2	
Q001 Q009 Q010 Q011 Q012 Q013 Q014	G-5 G-1 H-1 F-1 C-5 A-5 C-4	D012 D014 D015	B-4 A-1 B-4	



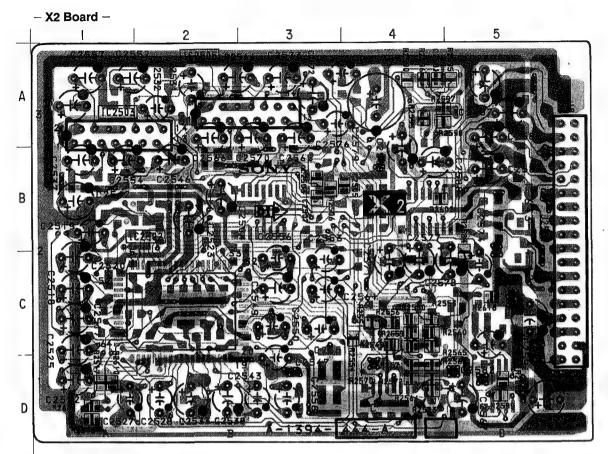
NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



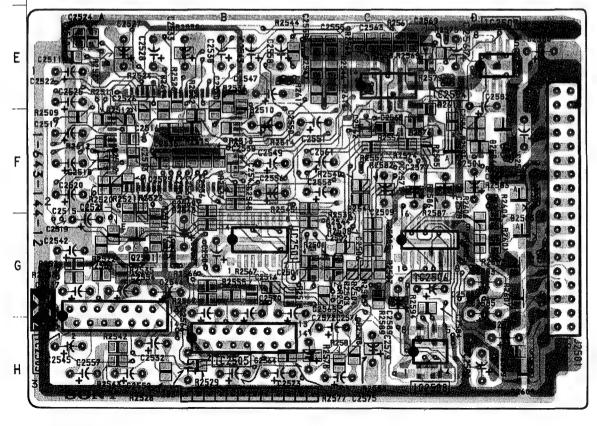






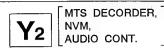
X2 Board

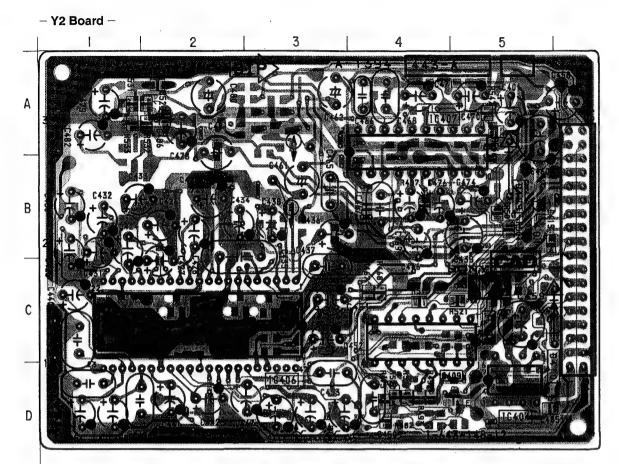
	10	·	
IC2501		G-3	
IC2502	C-2		
IC2503	A-1	H-1	
IC2504		E-4	
IC2505	A-2	H-2	
IC2506		G-4	
IC2507		E-5	
IC2508		H-4	
TR	TRANSISTOR		
Q2501	G-2	William	
	DIC	DE	
D2501		F-5	
D2502		F-5	
D2503		G-5	
D2504		F-5	



- Pattern from the side which enables seeing.
- Pattern of the rear side.

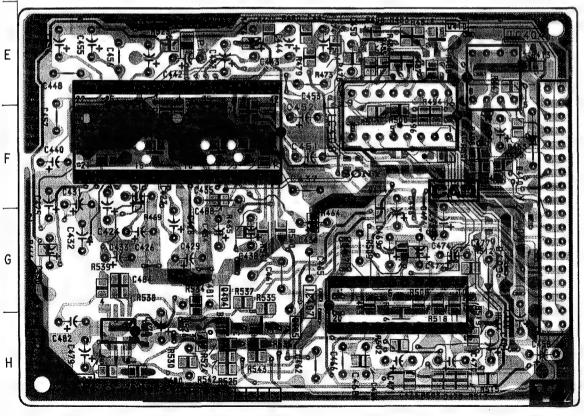
KP-46V15/46V16 KP-53V15/53V16/61V15 RM-Y115





Y2 Board

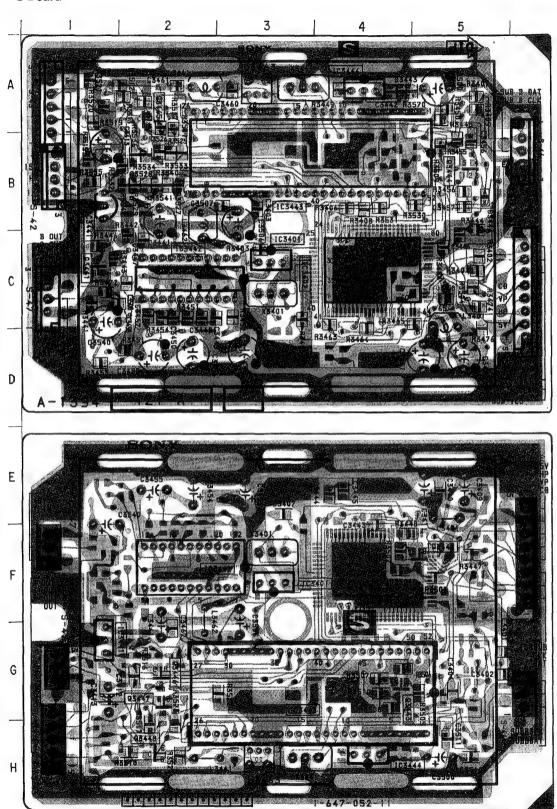
	IC
IC403	H-1
IC404	D-5, E-5
IC406	C-2, F-2
IC407	A-4, G-4
IC408	C-4, F-4
TRAN	SISTOR
Q404	H-3
Q405	H-3
Q409	D-5
Q410	E-5
DI	ODE
D405	F-2
D406	F-2
D407	F-3
D408	E-4
D409	A-5
D410	C-5, F-5
D413	E-6
D414	F-4
D415	B-5



- Pattern from the side which enables seeing.
- Pattern of the rear side.



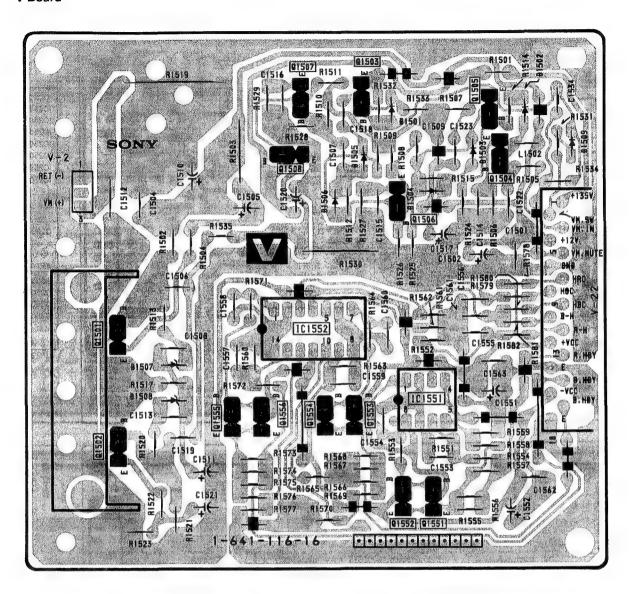
- S Board -



KP-46V15/46V16 KP-53V15/53V16/61V15



- V Board -

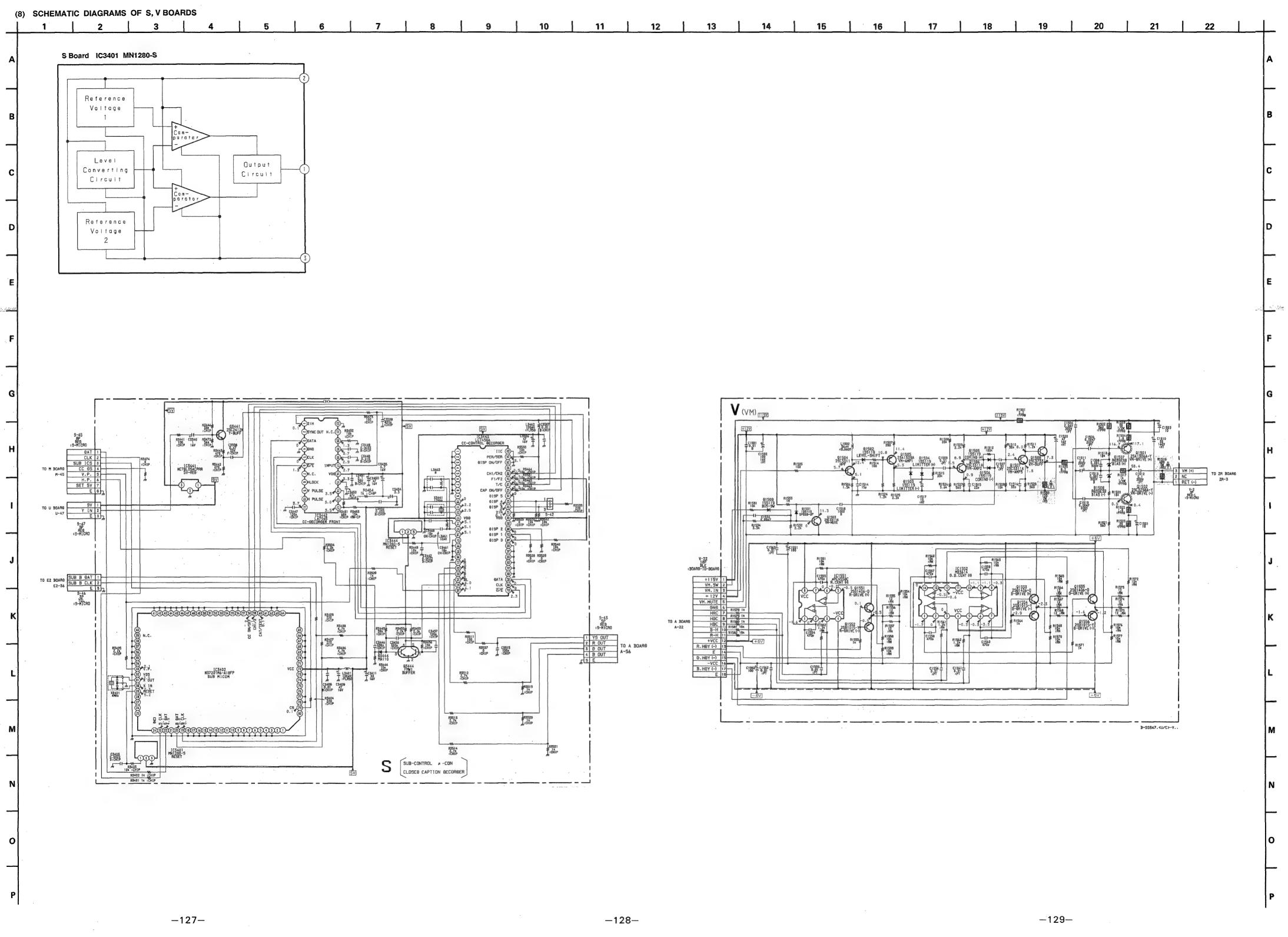


S Board

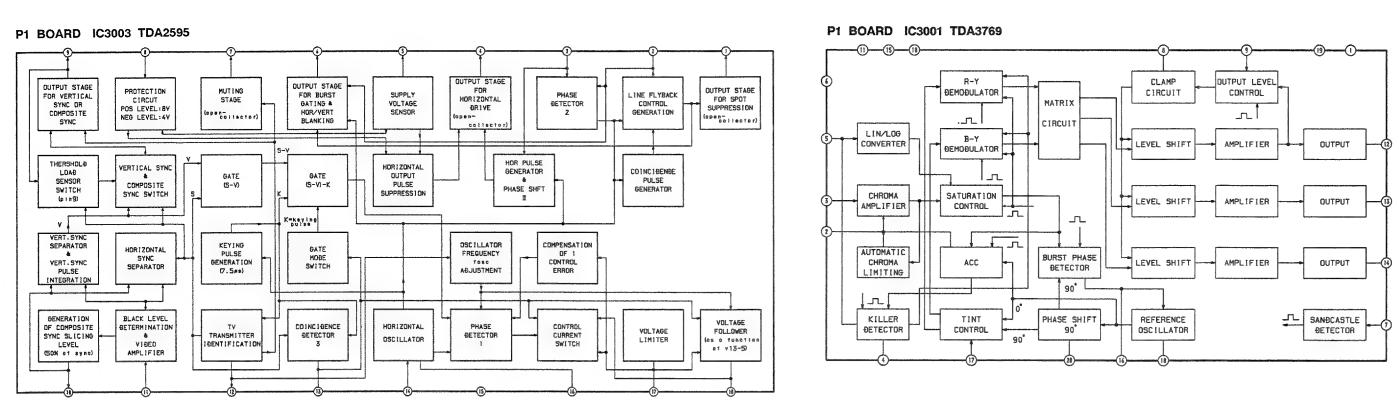
IC	TRANSISTOR	
IC3401 C-3, F-1 IC3402 C-3 IC3441 B-1, G-1	Q3441 C-1 Q3444 B-5	
IC3441 B-1, G-1 IC3442 C-2, F2 IC3443 B-3, G-3	DIODE	
IC3444 A-4, H-4	D3444 B-5	

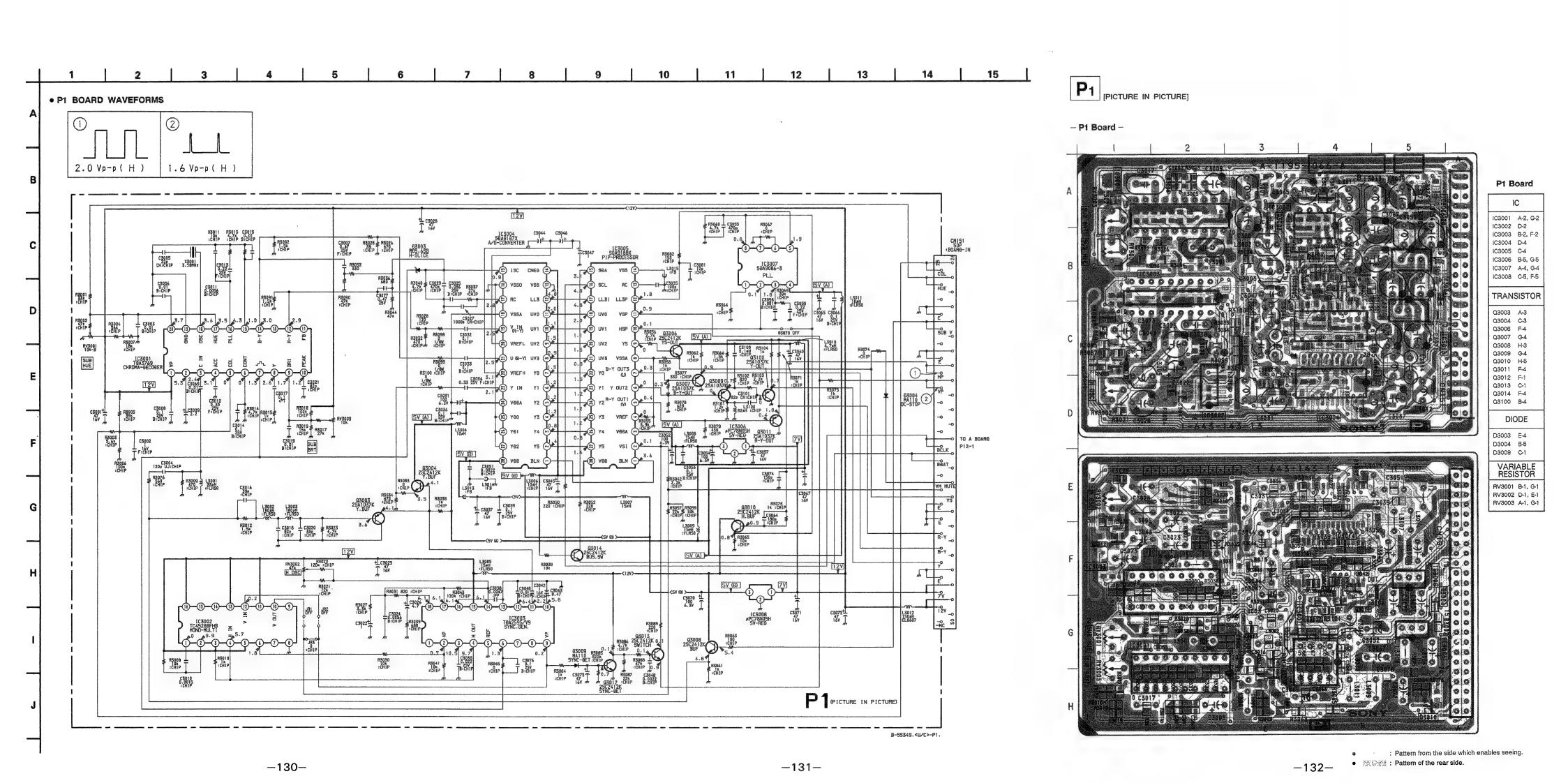
Pattern from the side which enables seeing.

Pattern of the rear side



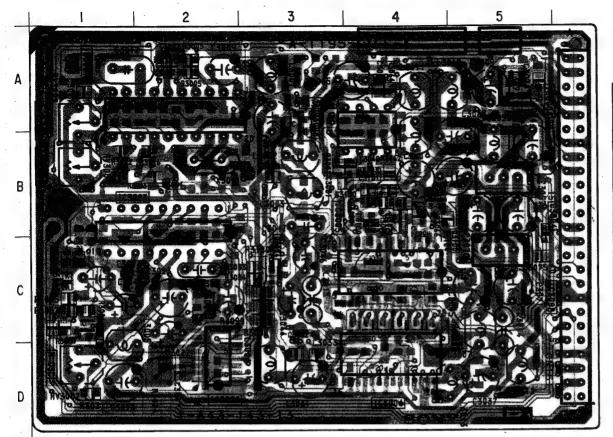
(9) SCHEMATIC DIAGRAM OF P1 BOARD





P1 [PICTURE IN PICTURE]

- P1 Board -



P1 Board

ı	С
IC3001	A-2, G-2
IC3002	D-2
IC3003	B-2, F-2
IC3004	D-4
IC3005	C-4
IC3006	B-5, G-5
IC3007	A-4, G-4
IC3008	C-5, F-5
TRAN	SISTOR
Q3003	A-3
Q3004	C-3
Q3006	F-4
Q3007	G-4
Q3008	H-3
Q3009	G-4
Q3010	H-5
Q3011	
Q3012	F-1

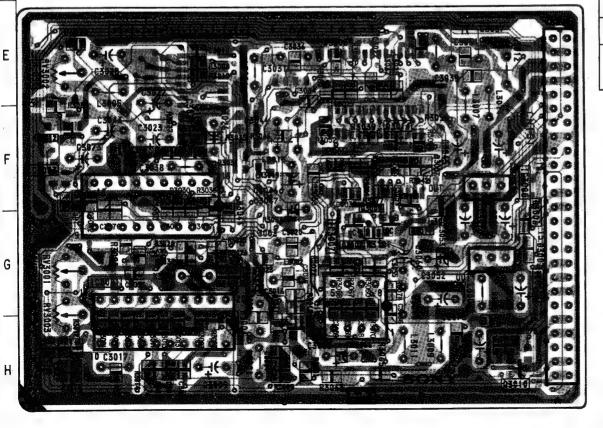
DIODE

Q3013 C-1 Q3014 F-4 Q3100 B-4

D3003 E-4 D3004 B-5 D3009 C-1

VARIABLE RESISTOR

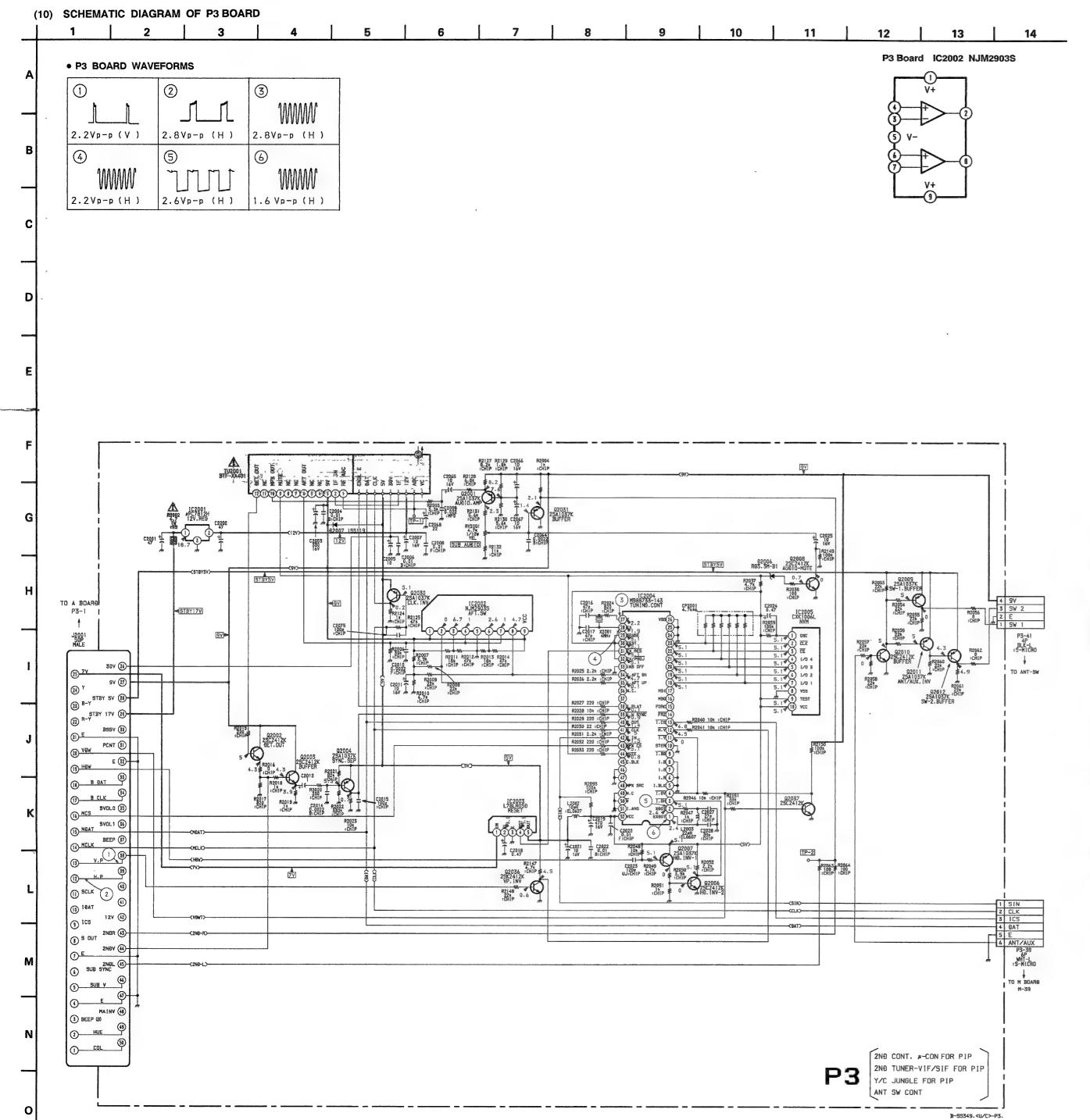
RV3001 B-1, G-1 RV3002 D-1, E-1 RV3003 A-1, G-1



: Pattern from the side which enables seeing.

−132− • ********

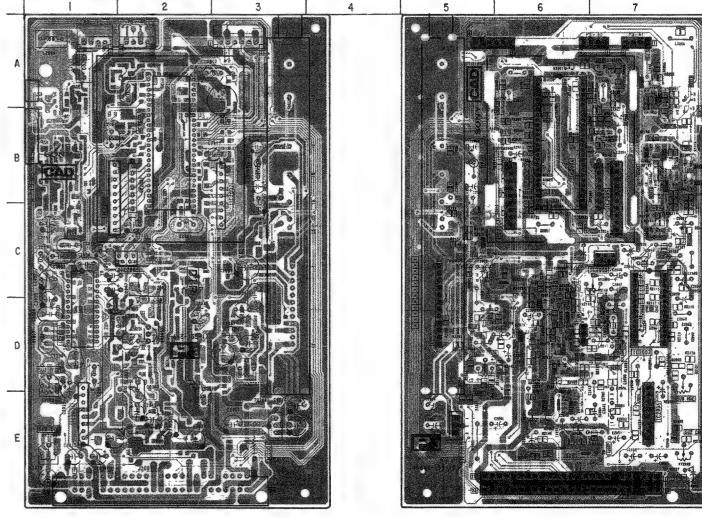
: Pattern of the rear side.





P3

[2ND CONT. μ -CON FOR PIP, 2ND TUNER-VIF/SIF FOR PIP, 4/C JUNGLE FOR PIP, 2NT SW CONT]

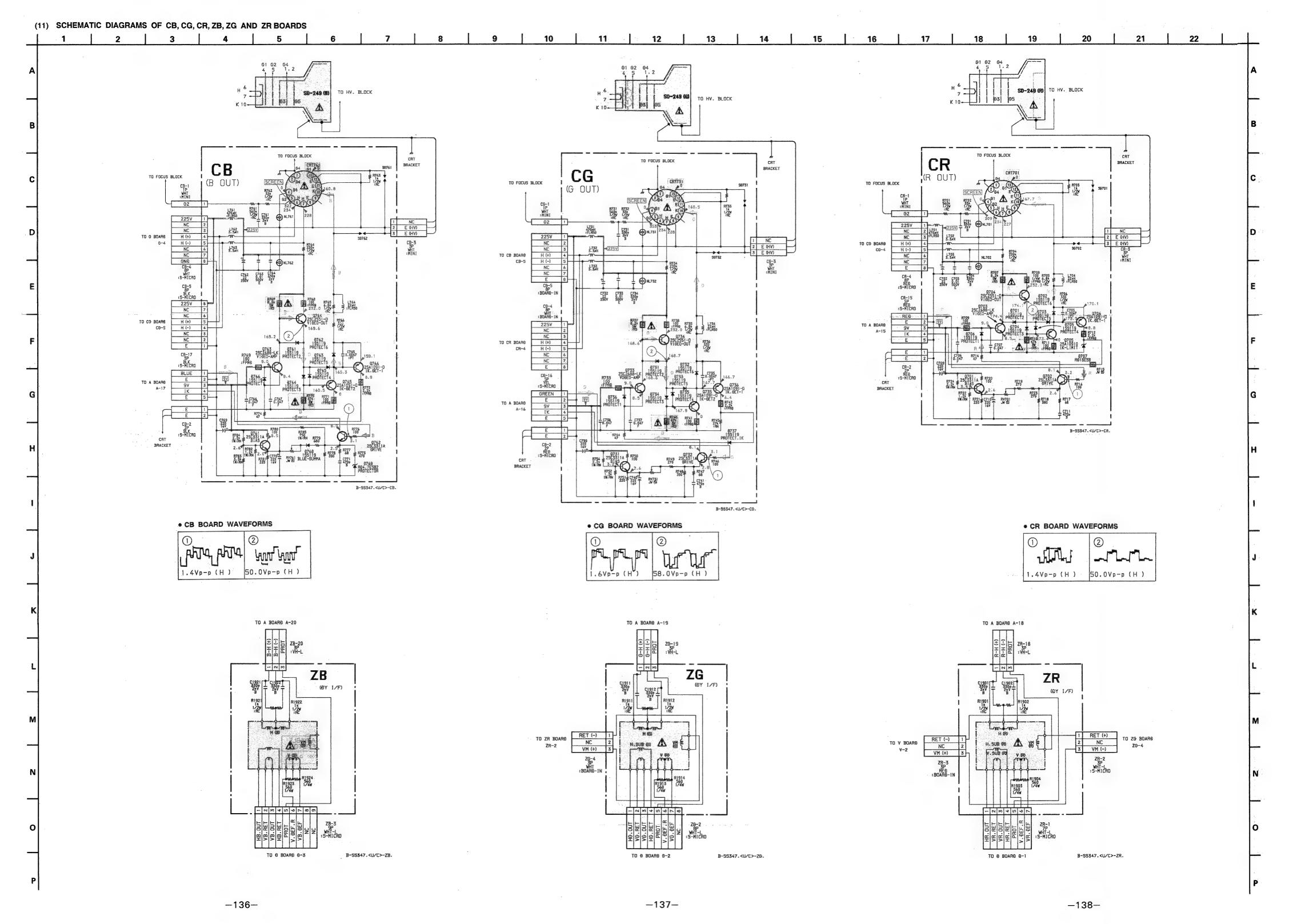


Pattern of the rear side.

: Pattern from the side which enables seeing.

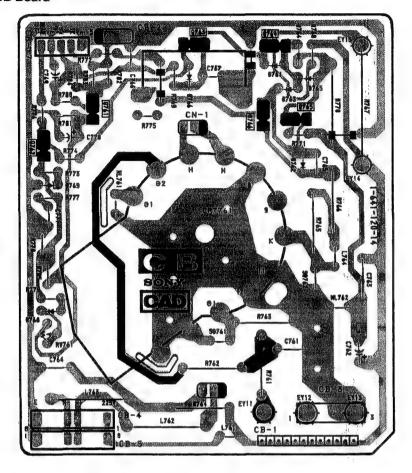
P3 Board

IC	Q2006 A-6 Q2007 A-7	VARIABLE RESISTOR
IC2001 E-3, E-5 IC2002 C-3, C-6	Q2008 D-5 Q2009 A-7	RV2001 D-3, D-5
IC2002 00, 00 IC2003 C-2, C-7 IC2004 B-2, B-6	Q2010 B-7 Q2011 A-7	TUNER
IC2005 C-1, C-7	Q2012 A-7 Q2030 C-5	TU2001 D-3, D-5
TRANSISTOR	Q2031 D-5 Q2036 B-7	CRYSTAL
Q2001 D-5	Q2037 E-7	X2001 C-2, C-6
Q2002 D-6 Q2003 D-6 Q2004 C-6	DIODE	
Q2005 B-7	D2006 C-6	

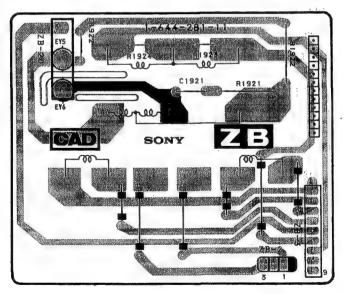


CB [B OUT] ZB [DY I/F]

- CB Board -



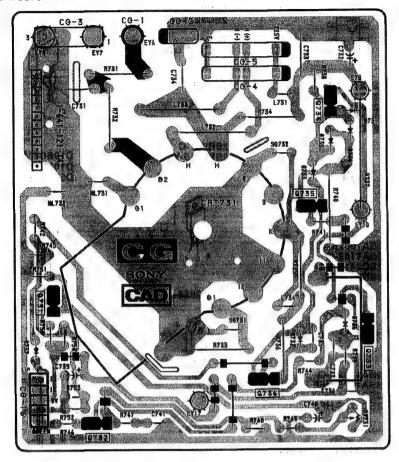
- ZB Board -



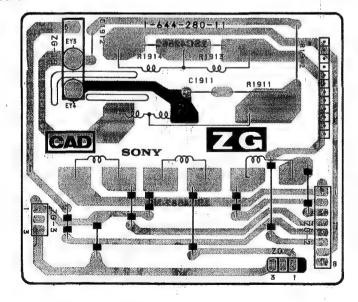
KP-46V15/46V16 KP-53V15/53V16/61V15

CG [G OUT] ZG [DY 1/F]

- CG Board -

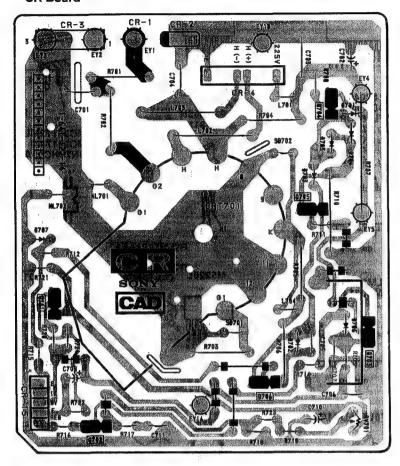


- ZG Board -

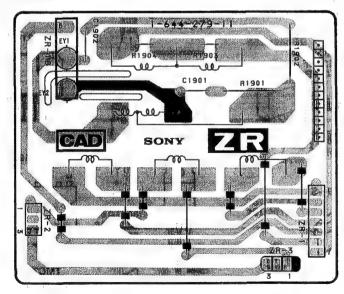


CR [R OUT] ZR [DY I/F]

- CR Board -

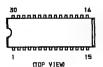


- ZR Board -



6-7. SEMICONDUCTORS

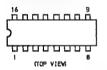
CXA1387S



CXA1268P SDA9187X SDA9188X



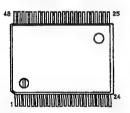
CXA1315M CXA1315P μ PD4053BC



CXA1464AS



CXA1373Q CXA1545S



LC7458A-02



CXA1656S LA7945



CXK1006L



24C04Al/P SDA9086-3 TL082CP μ PC393C μ PC4082C μ PC4557C μ PC4558C



LM324N MB3614 μ PC1394C



L78LR05D-MA



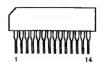
MC74HC4053F MC14528BF μ PD4052BG



MN1280-S



M51523AL



NJM2903S



NJM78M05FA TA7812S μ PC7805H μ PC7812H



M5220L



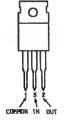
RC4558PS μ PC4570G2



CXA1264AS PA0036



NJM79M05FA NJM7915FA



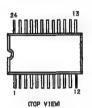
SI-3090CA



MC33172ML MC33174M SN74HC05ANS



PCA8510T/012-T



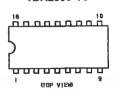
STK-4278L



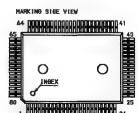
TA8216H



TDA2595-V9



TMC73C247-10



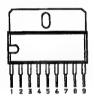
 μ PC1037HA



 μ PC78N05H



 μ PC1498H



TA8184P TDA3769



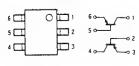
DTA124ES DTC144ES 2SC3622A-LK



FMW1



XN4401



IMX3 IMZ1



2SA1013-0 2SD788-5 2SA1091-0 2SA1208-S 2SC2551-0



2SA1037K-QR 2SA1162-G 2SC2412K-QR 2SD601A-Q



2SA1309A-Q 2SA1175-HFE 2SC3311A-Q 2SC2785-HFE



2SA1301-0



2SA1306A-Y 2SC3298A-Y 2SC4793



2SB649A-C 2SC2611 2SC2688-LK 2SC3271-N



2SB861-C 2SB1015-Y 2SC3675-CB 2SD1406-YGR



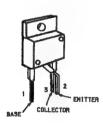
2SC2555-2



2SC3733



2SC4256CB



2SC4582-NP 2SD2012



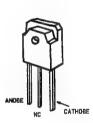
2SC4891-CA 2SD1887-CA



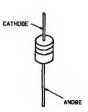
D10SC6M D10SC6MR D5KC40H

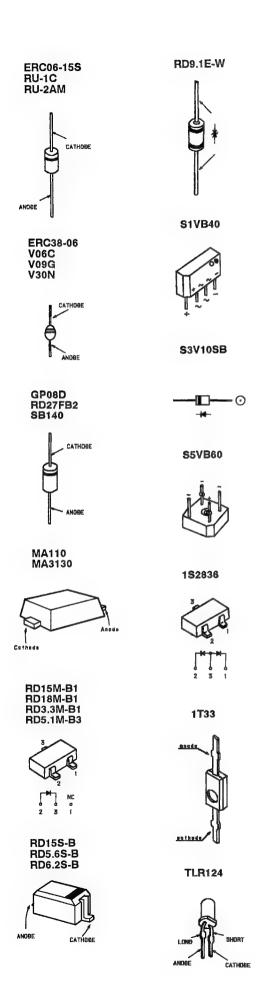


DD50R



D1N20R EGP10D PB-100A RD13ES-B2 RD18ES-B2 RD2.0ES-B1 RD24ES-B3 RD3.3ES-B2 RD3.9ES-B1 RD33ES-B2 RD4.7ES-B2 RD5.1ES-B1 RD5.1ES-B1 RD5.6ES-B2 RD7.5ES-B1





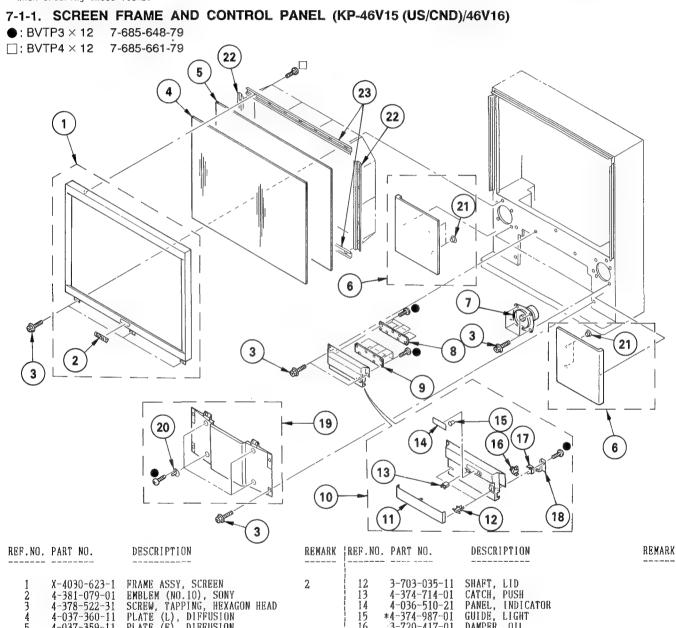
SECTION 7 EXPLODED VIEWS

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark A are critical for safety

Replace only with part number specified Les composants identifies par une trame et une marque A sont critiques pour la securite Ne les remplacer que par une piece portant le numero specifie

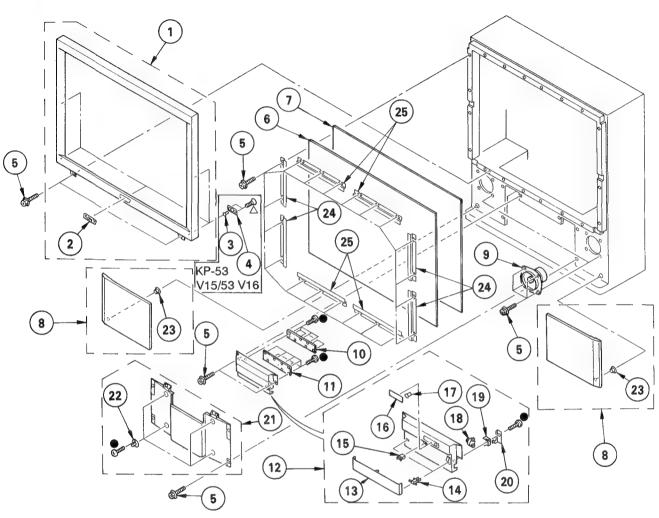


EF.NU.	PART NU.	DESCRIPTION	REMARK
	X-4030-623-1 4-381-079-01 4-378-522-31 4-037-360-11 4-037-359-11	FRAME ASSY, SCREEN EMBLEM (NO.10), SONY SCREW, TAPPING, HEXAGON HEAD PLATE (L), DIFFUSION PLATE (F), DIFFUSION	2
6	X-4030-639-1	GRILLE ASSY, SPEAKER (KP-46V15(U	
	X-4031-106-1 1-544-768-11 *1-643-591-11	SPEAKER (13CM) (COAXIAL)	21 21
	*1-643-592-13 X-4031-107-1 X-4031-195-1	PANEL ASSY, CUNTROL (KP-46V16)	S/CND))
11		LID, CONTROL (KP-46V16) LID, CONTROL (KP-46V15(US/CND))	11~18

REF.NO	. PART NO.	DESCRIPTION	REMARK
12	3-703-035-11	SHAFT, LID	
13	4-374-714-01	CATCH, PUSH	
14	4-036-510-21	PANEL, INDICATOR	
15	*4-374-987-01	GUIDE, LIGHT	
16	3-720-417-01	DAMPER, OIL	
17 18 19	4-397-047-01 4-036-513-01 X-4030-618-1 X-4030-622-1 4-843-806-00		(KP-46V15(US/CND)) 20 (KP-46V16) 20
21	4-838-438-00	LATCH	
22	*4-036-092-21	HOLDER (S), SCREEN	
23	*4-036-091-21	HOLDER (L), SCREEN	

7-1-2. SCREEN FRAME AND CONTROL PANEL (KP-53V15/53V16/61V15 (US/CND))

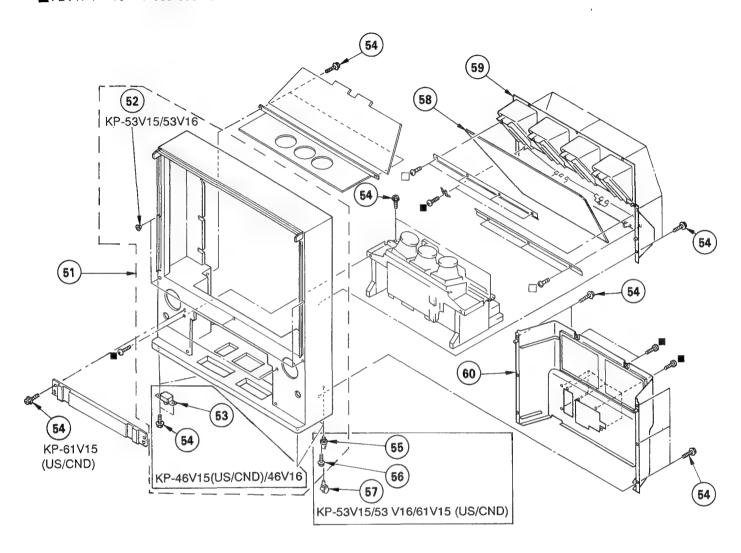
●: BVTP3 × 12 7-685-648-79 △: KTP3 × 10 7-685-247-14



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF NO.	PART NO.	DESCRIPTION REMARK
1 2 3	X-4030-616-1 X-4031-080-1 4-381-079-01 4-381-079-21 4-838-452-00	FRAME ASSY, SCREEN (KP-53V15/53V FRAME ASSY, SCREEN(KP-61V15(US/CI EMBLEM (NO.10), SONY (KP-61V15(US EMBLEM (NO.10), SONY (KP-53V15/53 STRIKE (KP-53V15/53V16)	ND)) 2 S/CND))	13 14 15 16	4-036-511-01 4-036-511-11 3-703-035-11 4-374-714-01 4-036-510-21	LID, CONTROL (KP-53V16) LID, CONTROL (KP-53V15/61V15(US/CND)) SHAFT, LID CATCH, PUSH PANEL, INDICATOR
4 5 6 7	4-838-453-00 4-378-522-31 4-036-466-11 4-040-124-11 4-036-469-11 4-040-123-11	SUPPORT (KP-53V15/53V16) SCREW, TAPPING, HEXAGON HEAD PLATE (L), DIFFUSION (KP-53V15/5) PLATE (L), DIFFUSION (KP-61V15(U) PLATE (F), DIFFUSION (KP-53V15/5) PLATE (F), DIFFUSION (KP-61V15(U)	S/CND)) 3V16)	17 18 19 20 21	*4-374-987-01 3-720-417-01 4-397-047-01 4-036-513-01 X-4030-615-1	GUIDE, LIGHT DAMPER, OIL HOLDER, DAMPER SPRING, LID COVER ASSY, FRONT (KP-53V16) 22
8	X-4030-637-1 X-4031-079-1	GRILLE ASSY, SPEAKER (KP-53V15) GRILLE ASSY, SPEAKER (KP-61V15(U	S/CND)) 23	22 23	X-4030-619-1 4-843-806-00 4-838-438-00	COVER ASSY, FRONT 22 (KP-53V15/61V15(US/CND)) STRIKE LATCH
9	X-4031-144-1 1-544-768-11	GRILLE ASSY, SPEAKER (KP-53V16) SPEAKER (13CM) (COAXIAL)	23		*4-036-499-01 *4-040-122-01	HOLDER (S), SCREEN (KP-53V15/53V16) HOLDER (S), SCREEN (KP-61V15(US/CND))
	*1-643-591-11 *1-643-592-11 X-4031-107-1 X-4031-195-1 X-4031-267-1	HI BOARD H2 BOARD PANEL ASSY, CONTROL (KP-53V16) PANEL ASSY, CONTROL (KP-53V15) PANEL ASSY, CONTROL (KP-61V15(13~20 13~20 13~20 US/CND))	25	*4-040-122-01 *4-036-498-01 *4-040-120-01	HOLDER (L), SCREEN (KP-53V15/53V16) HOLDER (L), SCREEN (KP-61V15(US/CND))

7-2. CABINET

☐: BVTP4 × 12 7-685-661-79☐: BVTP4 × 16 7-685-663-79



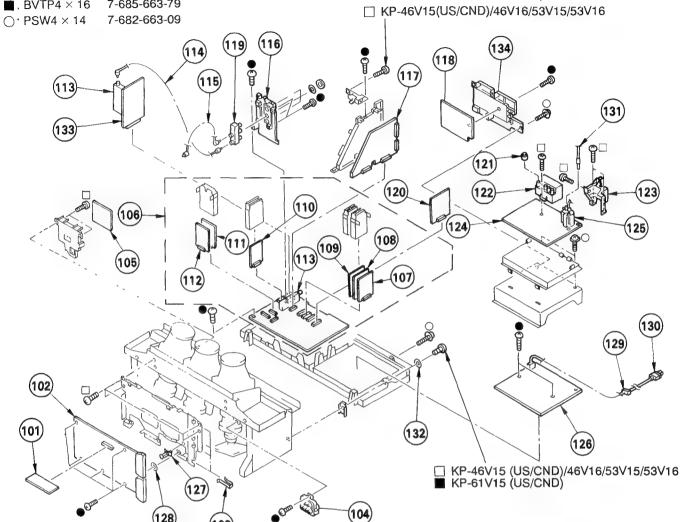
REF.NO	. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION R	EMARK
51	*X-4031-081-1 *X-4031-105-1	CABINET ASSY (KP-61V15(US/CND)) CABINET ASSY (KP-46V16)	55,56 53,54 53,54	57		CASTER (KP-61V15(US/CND)) CASTER (KP-53V15/53V16)	
	*X-4031-109-1 *X-4031-118-1 *X-4030-636-1	CABINET ASSY (KP-53V16) 5	2,55,56 2,55,56	58	4-037-349-01 4-037-534-01	MIRROR (53), REFLECTION (KP-53V15/53V16/61V15(US/ MIRROR (46), REFLECTION	CND))
52 53	4-838-438-00 4-040-755-01	LATCH (KP-53V15/53V16) CASTER(DIA. 30)(KP-46V15(US/CND)	/46V16\		4-051-354-01	(KP-46V15(US/CND)/4	6 V 16)
54 55	4-378-522-31	SCREW, TAPPING, HEXAGON HEAD SOCKET, CASTER	/40110/	59	4-036-462-01	COVER (46"), MIRROR (KP-46V15(US/CND)/4	6V16)
ננ	4"050"050"01	(KP-53V15/53V16/61V15(U	S/CND))		4-036-474-01	COVER (53"), MIRROR (KP-53V15/53V16/61V15(US/	· ·
56	4-378-522-01	SCREW, TAPPING, HEXAGON HEAD (KP-61V15(US/CND))		60	X-4030-549-1	COVER ASSY, BACK	

Les composants identifies par une trame et une marque A sont critiques pour la securite Ne les remplacer que par une piece portant le numero specifie

The components identified by shading and mark 🛕 are critical for safety Replace only with part number specified

7-3. CHASSIS

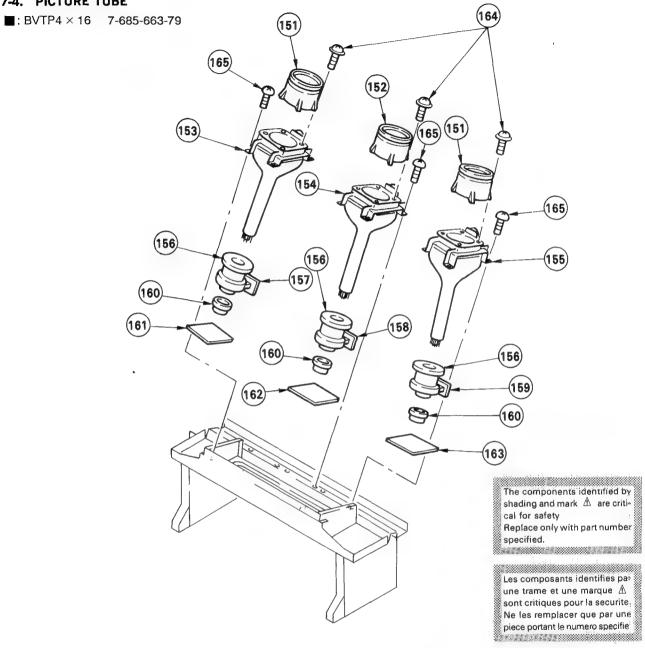
●: BVTP3 × 12 7-685-648-79 ☐: BVTP4 × 12 7-685-661-79 ■. BVTP4 × 16 7-685-663-79



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO. PART NO.
101 *1-644-278-11 102 *A-1346-117-A 103 *4-393-401-!! 184 * 1-2*1-744-13 105 *A-1394-421-A	D BOARD, COMPLETE SPRING, TRANSISTOR RESERVE ASSY (REGREY	0(**6%)	118 *A-1394-4 119 1-417-17 120 *A-1342-2 121 4-373-13
*A-1297-108-A	A BOARD, COMPLETE (RP-46V15(US/CND)/46 A BOARD, COMPLETE (KP E1 BOARD, COMPLETE	V16/61V15(US/CND))	125 & 1-453-12
109 *A-1306-436-A 110 *A-1195-066-A 111 *A-1394-444-A	E2 BOARD, COMPLETE M BOARD, COMPLETE P1 BOARD, COMPLETE X2 BOARD, COMPLETE Y2 BOARD, COMPLETE		128 4-866 14 129 4-388-32 130 4 696 8 131 1-574-59 132 4-039-11
113	CABLE, P-P CABLE, PIN PANEL, SUB CONNECTOR		133 *A-1195-0 134 4-036-13

REF.NO. PART NO.	DESCRIPTION	REMARK
120 *A-1342-214-A 121 4-373-137-01	SELECTOR, ANTENNA (AS-2 V BOARD, COMPLETE	
123 4-034-482-01 124 *A-1390-35! A 125 & 453-123-12 126 *A-1316-149-A 127 *3-670-570-21	N ROARD, COMPLETE TRANSFORMER ASSY, FLYSA G BOARD, COMPLETE	(* {**-263084}
128	GROMMET A CORD CORD PEWER(WITH BOISE LEAD ASSY, HIGH-VOLTAGE	
	P3 BOARD, COMPLETE PANEL, MAIN CONNECTOR	

7-4. PICTURE TUBE



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK
151	4-034-057-01	LENS (LINNIT) (KP-46V15(US/CND)/46V16/53V15	5/53V16)	155 (8.8-736-632-05	PICTURE TUBE (07MX 6) (NP-46VIS/US/CND)/4	
152	4-040-131-01 4-034-057-11	LENS (LINNIT POINT 6) (KP-61V15 (ULENS (LINNIT)	IS/CND))	} {	PICTURE TUSE OFMX2(8)	(50-249) 88-6 (415(35/380))
	4-040-131-11	(KP-46V15(US/CND)/46V16/53V15 LENS (LINNIT POINT 6)(KP-61V15(U		1	DEFLECTION YOUR (1934) ZR BOARD, COMPLETE	*
100000000000000000000000000000000000000		7 CTUGE TUBE OTME (8) (SB-24) (42-46)(5)(US/CNO)/46)(6/5)(U	9/53¥16)	158 *A-1390-346-A 159 *A-1390-347-A	ZG BOARD, COMPLETE ZB BOARD, COMPLETE	and the second s
Å		PICTURE TORE (1782) (3) (30-24) (49-6) 915 (1	IS/CND))	160 & 1-852-443 3 161 *A 1331-259 A	NEER ASSY, PLETURE THE CR BUARD, COMPLETE	
		FICTURE TUBE 074%(C) (SD-249) (RP-46415(US/CBD)/46416/53415 PICTURE TUBE 074%3(G) (SD-249) (RP-61415)	5/53¥16) JS/CW8})	162 *A-1331-260-A 163 *A-1331-261-A 164 3-701-810-91 165 7-685-661-79	CB BOARD, COMPLETE SCREW, TERMINAL	PING

P_3

SECTION 8 ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark A are critical for safety

Replace only with part number specified

Les composants identifies par une trame et une marque A sont critiques pour la securite Ne les remplacer que par une piece portant le numero specifie

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- · All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS

COILS

• MF : μF, PF : μμF •

• MMH : mH, UH : μH

 The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation Should replacement be required, replace only with the value originally used

REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESC	RIPTION			REMARK
	*A-1195-068-A	P3 BOARD, COM	PLETE			I C2003	8-759-805-3 8-759-066-5 8-759-803-2	7 IC L7	88733-14	A 3		
	<cap< td=""><td>ACITOR></td><td></td><td></td><td></td><td></td><td>Ĭ.></td><td>ACK></td><td></td><td></td><td></td><td></td></cap<>	ACITOR>					Ĭ.>	ACK>				
C2002 C2003 C2004	1-124-910-11 1-124-910-11 1-124-119-00 1-164-232-11 1-124-261-00	CERAMIC CHIP	47MF 47MF 330MF 0.01MF 10MF	20% 20% 20% 10% 20%	50V 50V 16V 50V 50V	J2001	*1-573-962-1		CTOR (MA	LE) 50	P	
C2006 C2007 C2008 C2009	1-164-232-11 1-126-157-11 1-163-031-11 1-163-157-00 1-164-161-11	CERAMIC CHIP ELECT CERAMIC CHIP	10MF 0.01MF 0.022MF	10% 20% 5%	50V 16V 50V 50V 50V	L2002 L2003	1-410-663-3 1-410-667-3	1 INDUC 1 INDUC	TOR	10UH 22UH		
C2011 C2013 C2014 C2015	1-126-157-11 1-126-301-11 1-164-161-11 1-163-117-00 1-163-109-00		10MF 1MF 0.0022MF	20% 20% 10% 5% 5%	16V 50V 50V 50V 50V	P3-39 P3-41	*1-564-521-1 *1-564-519-1	1 PLUG.	CONNECT	OR 6P		
C2017 C2018 C2019 C2020	1-163-109-00 1-124-465-00 1-126-103-11 1-163-031-11 1-126-157-11	CERAMIC CHIP BLECT ELECT CERAMIC CHIP	47PF 0.47MF 470MF		50V 50V 16V 50V 16V	1 02002	8-729-216-2 8-729-422-2 8-729-422-2 8-729-216-2 8-729-422-2	2 TRANS 7 TRANS 7 TRANS 2 TRANS	SISTOR 25 SISTOR 25	SD601A- SD601A- SA1162-	g G	
C2024 C2025	1-164-232-11 1-163-119-00 1-124-465-00 1-126-157-11 1-163-103-00	CERAMIC CHIP CERAMIC CHIP ELECT ELECT CERAMIC CHIP	0.47MF 10MF	10% 5% 20% 20% 5%	50V 50V 50V 16V 50V	Q2008 Q2009	8-729-422-2 8-729-216-2 8-729-901-8 8-729-216-2 8-729-422-2	2 TRANS 1 TRANS 2 TRANS	SISTOR 29	SA1162- SC2412K SA1162-	G -T-146 G	-R
C2065 C2066	1-163-107-00 1-164-161-11 1-126-320-11 1-126-157-11 1-126-157-11	CERAMIC CHIP CERAMIC CHIP BLECT ELECT ELECT	0.0022MF 10MF	5% 10% 20% 20% 20%	50V 50V 16V 16V 16V	Q2012 Q2030 Q2031	8-729-216-2 8-729-216-2 8-729-216-2 8-729-216-2 8-729-422-2	2 TRANS 2 TRANS 2 TRANS	SISTOR 2: SISTOR 2: SISTOR 2:	SA1162- SA1162- SA1162-	G G	
C2068 C2075	1-124-916-11 1-163-117-00	ELECT CERAMIC CHIP	22MF 100PF	20% 5%	50V 50V	Q2037	8-729-422-2	7 TRAN	SISTOR 2	SD601A-	Q	
	4C01	POSTATON SINCE	THE DIOCKS				<1	ESISTOR	>			
CP200	1 1-236-472-11	<pre>IPOSITION CIRCL NETWORK, RES, IDE></pre>		(+ R2006	* 1-216-061 (1-216-049-(1-216-689-1 1-216-063-(I META	L GLAZE	3.3K 1K 39K 3.9K	5% 5% 5% 5% 5%	100 1/10W 1/10W 1/10W 1/10W
D2006 D2007		DIODE RD3.3MDIODE 188119	-B1			R2008 R2009 R2010 R2011	1-216-081-0 1-216-081-0 1-216-065-0	O META O META O META	L GLAZE L GLAZE L GLAZE L GLAZE L GLAZE	22K 22K 4.7K 18K 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W
	1 8-759-231-58 2 8-759-700-48	IC TA7812S					1-216-079- 1-216-089-		L GLAZE L GLAZE	18K 47K	5% 5%	1/10W 1/10W

The components identified by shading and mark \(\Delta\) are critical for safety
Replace only with part number specified

Les composants identifies par une trame et une marque A sont critiques pour la securite Ne les remplacer que par une piece portant le numero specifie.





REF.NO. PART NO.	DESCRIPTION				REMARK		PART NO.	DESCRIPTION			REMARK
R2015 1-216-033-00 R2016 1-216-295-00 R2017 1-216-047-00 R2018 1-216-049-00 R2019 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 0 820 1K 1K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		TU28801	<tui &3-693-102-22 <cry< td=""><td></td><td>A4013</td><td></td><td></td></cry<></tui 		A 4 013		
R2020 1-216-037-00 R2021 1-216-095-00 R2022 1-216-109-00 R2023 1-216-073-00 R2024 1-216-047-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330 82K 330K 10K 820	5%	1/10W 1/10W 1/10W 1/10W 1/10W		1	1-567-192-11 ***********************************	******	********	*****	******
R2025 1-216-057-00 R2026 1-216-057-00 R2027 1-216-033-00 R2028 1-216-073-00 R2029 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 2.2K 220 10K 220	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		1	*A-1297-108-A	**************************************	***** IS/CND)/46V16 IPLETE (KP-53	/61V15(V15/53V	US/CND)) 16)
R2030 1-216-009-00 R2031 1-216-057-00 R2032 1-216-033-00 R2033 1-216-033-00 R2037 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22 2.2K 220 220 4.7K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		A-2 A-3	<pre><con *1-564-507-11="" *1-564-508-11="" *1-564-511-51<="" *1-564-512-11="" *1-564-514-11="" pre=""></con></pre>	NECTOR> PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC	TOR 9P TOR 4P TOR 5P		
R2038 1-216-025-00 R2039 1-216-097-00 R2040 1-216-073-00 R2041 1-216-073-00 R2046 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 100K 10K 10K 10K		1/10W 1/10W 1/10W 1/10W 1/10W		A-8 A-10	*1-564-506-11 *1-564-511-81 *1-564-511-71 1-573-297-11 1-573-297-11	PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC CONNECTOR, B	CTOR 8P CTOR 8P		
R2047 1-216-049-00 R2048 1-216-073-00 R2049 1-216-065-00 R2050 1-216-063-00 R2051 1-216-049-00	METAL GLAZE METAL GLAZE	1K 10K 4.7K 3.9K 1K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		A-14 A-15 A-16	*1-564-513-11 *1-564-508-11 *1-564-508-11 *1-564-508-11 *1-691-291-11	PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC PLUG, CONNEC PIN, CONNECT	TOR 10P TOR 5P TOR 5P TOR 5P		
R2052 1-216-057-00 R2053 1-216-081-00 R2054 1-216-081-00 R2055 1-216-081-00 R2056 1-216-295-00	METAL GLAZE	2.2K 22K 22K 22K 0	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		A-19 A-20 A-21	*1-691-291-11 *1-691-291-11 *1-508-786-00 1-573-297-11 *1-564-506-11	PIN, CONNECT PIN, CONNECT PIN, CONNECT CONNECTOR, E PLUG, CONNEC	OR (PC BOARD OR (PC BOARD OR (5MM PITO BOARD TO BOAR) 5P) 5P CH) 2P	
R2057 1-216-081-00 R2058 1-216-081-00 R2059 1-216-081-00 R2060 1-216-081-00 R2061 1-216-081-00	METAL GLAZE METAL GLAZE	22K 22K 22K 22K 22K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		A-27 A-56	*1-573-979-11 *1-564-508-11 *1-573-960-11	CONNECTOR, E	BOARD TO BOAR CTOR 5P	RD 11P	
R2062 1-216-295-00 R2063 1-216-025-00	METAL GLAZE	0 100	5% 5%	1/10W 1/10W				PACITOR>	45510	0.08/	FOU
R2064 1-216-025-00 R2093 1-216-097-00 R2124 1-216-049-00 R2125 1-216-089-00	METAL GLAZE METAL GLAZE	100 100K 1K 47K	5%	1/10W 1/10W 1/10W 1/10W		C201 C202 C203 C204 C205	1-124-910-11 1-124-903-11 1-130-495-00 1-124-477-11 1-124-557-11	ELECT ELECT MYLAR ELECT ELECT	47MF 1MF 0.1MF 47MF 1000MF	20% 20% 5% 20% 20%	50V 50V 50V 16V 25V
R2127 1-216-071-00 R2128 1-216-069-00 R2129 1-216-055-00 R2130 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	8.2K 6.8K 1.8K 5.6K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		C206 C207 C210 C212	1-126-101-11 1-124-242-00 1-102-121-00 1-126-803-11	BLECT BLECT CERAMIC BLECT	100MF 33MF 0.0022MF 47MF	20% 20% 10% 20%	16V 16V 50V 16V
R2131 1-216-067-00 R2132 1-216-676-11 R2147 1-216-065-00 R2148 1-216-081-00 R2149 1-216-097-00	METAL CHIP METAL GLAZE METAL GLAZE	5.6K 11K 4.7K 22K 100K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C213 C214 C215 C216	1-126-103-11 1-126-101-11 1-126-803-11 1-126-101-11	ELECT ELECT ELECT ELECT	470MF 100MF 47MF 100MF	20% 20% 20% 20%	16V 16V 50V 16V
R2150 1-216-097-00 R2151 1-216-085-00		100K 33K	5% 5%	1/10W 1/10W		C217 C218	1-126-803-11 1-126-103-11	ELECT ELECT	47MF 470MF	20% 20%	25V 16V
	RIABLE RESISTOR	l>		~, 10"		C219 C220 C223 C224 C225	1-124-443-00 1-126-803-11 1-126-803-11 1-124-261-00 1-124-120-11	ELECT ELECT ELECT ELECT ELECT	100MF 47MF 47MF 10MF 220MF	20% 20% 20% 20% 20%	10V 25V 25V 50V 16V
						C226 C227	1-124-120-11 1-124-621-11	elect elect	220MF 3300MF	20% 20%	16V 6.3V



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REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C299 C502 C503	1-126-182-11	ELECT ELECT Mylar	100MF 0.47MF 0.022MF	20% 20% 5%	16V 50V 50V	D219 D220	8-719-911-19 8-719-510-48	DIODE 188119 DIODE DIN2OR	
C504 C507	1-136-153-00 1-106-383-00	FILM MYLAR	0.01MF 0.047MF	5% 5%	50V 200V	D221 D222 D223		DIODE 188119 DIODE 188119	
C508 C509 C510 &	1-102-030-00 1-136-5-5-11	CERAMIC CERAMIC FILE FILE	100PF 330PF 0.015#8	5% 10% 3%	50V 500V 1.4XV 200V	D501 D502 D503	8-719-971-20	DIODE ERC38-06 DIODE ERC38-06 DIODE RU-1C	
C513	1-136-153-00	FILM ELECT	0.01MF 47MF	5% 5% 20%	50V 16V	D504 D505	8-719-109-88	DIODE RD5.6ESB1	CND)46V16/61V15(US/CND))
C522 C523 C528	1-123-024-21 1-106-383-00	ELECT MYLAR BLECT	33MF 0.047MF 220MF	20%	160V 200V 50V	D506 .	8-719-900-63	DIODE VO9C	END) 46V16/61V15(US/CND))
Č534 C535	1-124-011-00	ELECT ELECT	220MF 220MF	20% 20%	16V 16V	D507 D509 D510	8-719-911-19 8-719-109-71	DIODE DD50R DIODE 1SS119 DIODE RD3.9ESB1	
C536 C537 C539	1-124-662-11 1-124-662-11 1-124-907-11	ELECT ELECT ELECT	220MF 220MF 10MF	20% 20% 20%	50V 50V 50V	D511 D512	8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119	
C542 C543		FILM	0.01MF	5% 5%	50V 50V 50V	D513 D514 D515 D1401	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 188119 DIODE 188119 DIODE 188119 DIODE 188119	
C544 C545 C569 C1401	1-136-153-00 1-136-153-00 1-126-355-11 1-124-910-11	FILM FILM ELBCT ELBCT	0.01MF 0.01MF 33MF 47MF	5% 5% 5% 20% 20%	50V 50V 160V 50V	D1402	8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119	
C1401 C1402 C1403	1-126-157-11 1-126-157-11	ELECT ELECT	10MF 10MF	20% 20%	16V 16V	D1404 D1405 D1406	8-719-110-88 8-719-110-88 8-719-911-19	DIODE RD39ESB2 DIODE RD39ESB2 DIODE 1SS119	
C1404 C1405	1-126-157-11 1-124-910-11 1-126-101-11	BLECT BLECT BLECT	10MF 47MF 100MF	20% 20% 20%	16V 50V 16V	D1407	8-719-110-88 8-719-911-19	DIODE RD39ESB2 DIODE 1SS119	
C1407 C1408 C1409	1-126-057-11 1-136-165-00 1-136-165-00	ELECT FILM FILM	2200MF 0.1MF 0.1MF	20% 5% 5%	50V 50V 50V		8-719-110-88 8-719-911-19 8-719-911-19 8-719-911-19	DIODE RD39ESB2 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119	
	1-136-163-00 1-124-234-00 1-126-057-11	ELECT BLECT	22MF 2200MF	20% 20%	16V 50V		8-719-911-19		
C1425 C1426 C1429	1-126-057-11 1-126-157-11 1-126-101-11	BLECT BLECT BLECT	2200MF 10MF 100MF	20% 20% 20%	50V 16V 16V		<1C>		
C1430 C1431	1-126-101-11 1-124-916-11	ELECT ELECT	100MF 22MF	20% 20%	16V 50V		8-759-171-05	SCREW (M3X10), IC UPC7805H	
C1601	1-124-916-11 1-126-336-11 1-130-483-00		22MF 220MF 0.01MF	20% 20% 5%	25V 25V 50V	1C205 1C206	4-382-854-11 8-759-144-82 8-759-231-58	IC TA7812S	P, SW (+); IC204
	1-136-153-00 1-124-907-11 1-136-153-00	FILM BLBCT FILM	0.01MF 10MF 0.01MF	5% 20% 5%	50V 50V	10207	4-382-854-11 8-749-920-58 4-382-854-11	SCREW (M3X10), IC SI-3090CA	P, SW (+); IC206 P, SW (+); IC207
C1609	1-136-153-00 1-124-916-11	FILM BLECT	0.01MF 22MF	5% 5% 20%	50V 50V	1	8-752-057-18	IC CXA1315P	(7) 1020
	<010	DE>				1	4-382-854-11 8-752-058-71	SCREW (M3X10),	P, SW (+); IC1401
D203 D204 D205	8-719-911-19 8-719-911-19 8-719-110-36	DIODE 188119 DIODE RD13ES	5B2				<c01< td=""><td></td><td>ATOMI</td></c01<>		ATOMI
D206 D207	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 188119 DIODE 188119				L201 L205 L206 L212	1-408-429-00 1-410-645-31 1-408-416-00 1-410-312-11	INDUCTOR INDUCTOR	470UH 100UH 39UH Q.22UH
D208 D209 D211 D213	8-719-911-19 8-719-911-19 8-719-110-36 8-719-110-78	DIODE 155119 DIODE RD13ES DIODE RD33ES	5B2			L502	(, 1-460-196-11	COIL WITH CORE	L LINEAS TY
D214 D215	8-719-911-19 8-719-911-19	DIODE 188119 DIODE 188119)			L515	1-410-645-31		1000H
D216 D217	8-719-911-19 8-719-911-19	DIODE ISSITS DIODE ISSITS)			1 1			

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REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK
<tr< td=""><td></td><td></td><td></td><td></td><td></td></tr<>					
Q201 8-729-119-78 Q202 8-729-119-78 Q203 8-729-119-76 Q501 8-729-119-80 Q502 8-729-014-88 4-382-854-11	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2688-LK TRANSISTOR 2SC4891-CA SCREW (M3X10), P, SW (+); Q502		R507 1-249-429-11 R508 326-373-31 R511 1-249-407-11 R512 1-249-421-11	CARBON 10K METAL BATBE 2.2 METAL BATBE 398 CARBON 150 CARBON 2.2K	5% 1/4W F 5% 3W 8 5% 1/4W F
Q504 8-729-119-78 Q505 8-729-201-32 Q506 8-729-201-32 Q507 8-729-304-92 Q508 8-729-204-16	ANSISTOR> TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2688-LK TRANSISTOR 2SC4891-CA SCREW (M3X10), P, SW (+); Q502 TRANSISTOR 2SC2785-HFE TRANSISTOR 2SA1013-0 TRANSISTOR 2SA1013-0 TRANSISTOR 2SA1001-0 SCREW (M3X10), P, SW (+); Q508 TRANSISTOR 2SC2785-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-		R513 1-249-417-11 3538 ** 358-443-9 R515 1-249-432-11 R516 1-249-417-11 R517 1-249-427-11	CARRON 1 K ##7# 0X10# 27# CARBON 18K CARBON 1K CARBON 6.8K	5% 1/4W 8% 8% 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
4-362-834-11 0509 8-729-119-78 0510 8-729-119-78 0511 8-729-119-76 0512 8-729-119-78 01401 8-729-119-78	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFR		R519 1-249-417-11 R528 1 315-925-93 R522 1-249-421-11 R523 1-249-434-11	CARBON IK METAL 33108 228 METAL 33108 228 CARBON 2.2K CARBON 27K	5% 1/4W F 5% 3# F 5% 1/4W 5% 1/4W
Q1402 8-729-900-63 Q1407 8-729-119-78 Q1408 8-729-119-78 Q1601 8-729-119-78 Q1602 8-729-119-76	TRANSISTOR DTA124ES TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC1785-HFE TRANSISTOR 2SA1175-HFR		R524 Î-249-434-11 R528 A : \$18-922-93 R526 1-249-417-11 R528 * : \$18-447-93	CARBON 27K METAS GRIDE 6.88 CARBON IR METAS GRIDE 27 METAS ORDE 27	5% 1/4W 5% % F 5% 1/4W 5% 2W F
Q1603 8-729-119-76 Q1604 8-729-119-76 Q1605 8-729-119-78 Q1606 8-729-119-78	TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE		R530 1-249-431-11 R531 1-249-431-11 R532 1-249-385-11 R533 1-249-405-11	CARBON 15R CARBON 15K CARBON 2.2 CARBON 100	5% 1/4W 5% 1/4W 5% 1/4W F 5% 1/4W
Q1620 8-729-119-76	TRANSISTUR 2SAI175-HFE		R535 1-249-405-11 8536 * 3-217-338-33	CARBON 100 CARBON 100	5% 1/4W 5% 1/4W
<res< td=""><td>ISTOR></td><td></td><td>R550 1-249-385-11</td><td>CARBON 2.2</td><td>101 5¥ 5% 1/4W F</td></res<>	ISTOR>		R550 1-249-385-11	CARBON 2.2	101 5¥ 5% 1/4W F
R203 1-249-425-11 R204 1-249-441-11 R214 1-249-429-11 R215 1-249-437-11 R216 1-249-377-11	CARBON 4.7K 5% 1/4W CARBON 100K 5% 1/4W CARBON 10K 5% 1/4W CARBON 47K 5% 1/4W CARBON 0.47 5% 1/4W	F	R558 1-249-385-11 R559 1-249-409-11 R560 1-249-409-11 R563 1-249-429-11 R564 1-249-429-11	CARBON 2.2 CARBON 220 CARBON 220 CARBON 10K CARBON 10K	5% 1/4W F 5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W
R219 1-249-426-11 R221 1-249-409-11 R222 1-249-436-11 R223 1-249-434-11 R224 1-249-409-11	CARBON 220 5% 1/4W CARBON 39K 5% 1/4W		R565 1-249-427-11 R566 1-249-427-11 R567 1-249-427-11 R568 1-249-427-11 R569 1-249-426-11	CARBON 6.8K CARBON 6.8K CARBON 6.8K CARBON 6.8K	5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W
NZ31 1-245-405-11	CARBON 1.5K 5% 1/4W MCTAL DATE 4 78 5% 4		R570 1-249-441-11 R571 1-249-429-11 R572 1-249-429-11 R574 1-249-417-11 R579 1-249-417-11	CARBON 10K CARBON 10K CARBON 1K	5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W
R232 ** 1 * 218 * 48 * * 1 * 249 - 409 - 11	CARBON 220 5% 1/4W CARBON 220 5% 1/4W CARBON 220 5% 1/4W CARBON 220 5% 1/4W		R1401 1-215-445-00 R1402 1-215-445-00 R1403 1-215-445-00 R1404 1-215-445-00 R1405 1-249-385-11	METAL 10K METAL 10K METAL 10K	1% 1/4W 1% 1/4W 1% 1/4W 1% 1/4W 5% 1/4W
R237 1-249-409-11 R238 1-249-409-11 R239 1-249-409-11 R248 1-249-401-11	CARBUN 47 5% 1/4W	\$	R1406 1-249-385-11 R1409 1-249-433-11 R1410 1-249-433-11 R1411 1-249-437-11 R1411 1-249-437-11	CARBON 22K CARBON 22K CARBON 47K	5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W
\$242	* RE***********************************			CARBON 100 CARBON 4.7K CARBON 3.3K	5% 1/4W
R502 1-249-377-11 R503 1-249-377-11 R504 1-249-417-11 R505 1-249-423-11 R538 1-215-832+8	CARBON 0.47 5% 1/4W CARBON 0.47 5% 1/4W CARBON 1K 5% 1/4W CARBON 3.3K 5% 1/4W 88% 3% 3%	F	R1440 1-249-417-11 R1442 1-215-410-00 R1443 1-215-410-00	METAL 360	5% 1/4W 1% 1/4W 1% 1/4W





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R1601 R1602 R1603	1-249-429-11 1-249-423-11 1-249-417-11 1-249-423-11 1-249-405-11		10K 3.3K 1K 3.3K 100	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C335 C336 C337 C338 C339	1-136-169-00 1-126-301-11 1-126-301-11 1-124-584-00 1-124-791-11	FILM BLBCT BLBCT BLBCT BLBCT	0.22MF 1MF 1MF 100MF 1MF	5% 20% 20% 20% 20% 20%	50V 50V 50V 10V 50V
R1606 R1607 R1608 R1609	1-249-405-11 1-249-405-11 1-249-415-11 1-249-415-11 1-249-415-11	CARBON CARBON CARBON CARBON CARBON	100 100 680 680 680	5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C340 C341 C342 C343 C344	1-163-009-11 1-126-157-11 1-124-465-00 1-124-589-11 1-164-232-11	CERAMIC CHIP ELECT ELECT ELECT CERAMIC CHIP	10MF 0.47MF 47MF	10% 20% 20% 20% 10%	50V 16V 50V 16V 50V
R1611 R1612 R1613 R1614	1-249-405-11 1-249-405-11 1-249-405-11 1-249-423-11 1-249-411-11	CARBON CARBON CARBON CARBON CARBON	100 100 100 3.3K 330	5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C345 C346 C347 C348 C349	1-124-767-00 1-164-232-11 1-136-169-00 1-163-117-00 1-126-301-11	ELECT CERAMIC CHIP FILM CERAMIC CHIP ELECT	0.22MF	20% 10% 5% 5% 20%	50V 50V 50V 50V 50V
R1627 R1630 R1631	1-249-423-11 1-249-424-11 1-249-429-11 1-249-434-11 1-249-433-11	CARBON CARBON CARBON CARBON CARBON	3.3K 3.9K 10K 27K 22K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C350 C351 C352 C353 C354	1-126-301-11 1-163-002-11 1-164-489-11 1-126 163-11 1-136-169-00	ELECT CERAMIC CHIP CERAMIC CHIP ELECT FILM	1MF 270PF 0.22MF 4 7MF 0.22MF	20% 10% 10% 20% 5%	50V 50V 16V 50V 50V
R1656 R1657 R1658	1-249-397-11 1-249-397-11 1-249-397-11	CARBON CARBON CARBON NSFORMER>	22 22 22	5% 5% 5%	1/4W 1/4W 1/4W		C355 C356 C357 C358 C360	1-124 465-00 1-163-017-00 1-163-117-00 1-124-767-00 1-137-491-11	ELECT CERAMIC CHIP CERAMIC CHIP ELECT FILM CHIP		20% 10% 5% 20% 5%	50V 50V 50V 50V 25V
7502. 8	.] - \$ 37 - 5 45 .] - \$ 37 - 878 < TUN		FSR8:78	\$ \$ \$\$\$!	31.9		C361 C362 C363 C364 C365	1-126-301-11 1-164-232-11 1-164-232-11 1-126-301-11 1-164-343-11	ELECT CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	0.01MF 1MF	20% 10% 10% 20% 10%	50V 50V 50V 50V 25V
7010 1 2	JI-693-102-22	TENES (RTS X)	4600				C366 C367	1-124-257-00 1-126-157-11	ELECT ELECT	2.2MF 10MF	20% 20%	50 V 16 V
	************ *A-1346-138-A		PLETE	*****	******	******			ELECT CERAMIC CHIP CERAMIC CHIP	22MF 220PF	20% 10% 10%	16V 50V 50V
	CAD	ACITOR>	ու դու դու դու դու				C371 C372 C373	1-124-126-00 1-124-589-11 1-164-232-11	ELECT ELECT CERAMIC CHIP	47MF 47MF	20% 20% 10%	16V 16V 50V
C301	1-163-010-11	CERAMIC CHIP		MF	10%	50V	C378 C379	1-164-232-11 1-164-232-11	CERAMIC CHIP CERAMIC CHIP	100PF	5% 10%	50V 50V
C303 C304 C305 C306	1-126-157-11 1-164-232-11 1-163-251-11 1-163-117-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0 01MF 100PF		20% 10% 5% 5%	16V 50V 50V 50V	C380 C381 C382 C383	1-163-137-00 1-163-101-00 1-164-004-11 1-164-004-11	CERAMIC CHIP	22PF 0.1MF	5% 5% 10% 10%	50 V 50 V 25 V 25 V
C309 C310 C314 C315 C319	1-164-505-11 1-163-109-00 1-124-915-11 1-164-505-11 1-126-157-11	CERAMIC CHIP CBRAMIC CHIP BLECT CERAMIC CHIP BLECT	47PF 10MF		5% 20% 20%	16V 50V 16V 16V 16V	C384	1-163-095-00 <dio< td=""><td>CERAMIC CHIP</td><td>12PF</td><td>5%</td><td>50V</td></dio<>	CERAMIC CHIP	12PF	5%	50V
C320 C321 C322 C323 C324	1-124-465-00 1-163-125-00 1-163-003-11 1-163-099-00 1-124-234-00	ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	330PF		20% 5% 10% 5% 20%	50V 50V 50V 50V 16V	D301 D302 D303 D304 D305	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MAIIO DIODE MAIIO DIODE MAIIO DIODE MAIIO			
C325 C326 C327 C328 C329	1-104-563-11 1-104-563-11 1-104-563-11 1-126-157-11 1-126-157-11	FILM CHIP FILM CHIP FILM CHIP BLECT BLECT	0.1MF 0.1MF 0.1MF 10MF		5% 5% 5% 20% 20%	16V 16V 16V 16V 16V	D306 D307 D310 D312 D313	8-719-158-15 8-719-404-46 8-719-158-15 8-719-404-46 8-719-404-46	DIODE RD5.6S DIODE MA110 DIODE RD5.6S DIODE MA110 DIODE MA110			
C330 C331 C332 C333 C334	1-126-157-11 1-126-301-11 1-124-584-00 1-163-037-11 1-137-491-11	ELECT ELECT ELECT CERAMIC CHIP FILM CHIP	10MF 1MF 100MF	IF	20% 20% 20% 20% 10% 5%	16V 50V 10V 25V 25V	D314 D315 D316 D317 D318	8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46 8-719-404-46	DIODE MAIIO DIODE MAIIO DIODE MAIIO DIODE MAIIO DIODE MAIIO			



	PART NO	DESCRIPTION	REMARK	REF.NO	PART NO.	DESCRIPTION				REMARK
D319 D320 D321		DIODE MA110 DIODE MA110		R302 R303 R304 R305	1-216-057-00 1-216-079-00 1-216-081-00 1-216-069-00		2.2K 18K 22K 6.8K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
DL302	1-415-817-11			R306 R307 R308 R309 R310	1-216-081-00 1-216-089-00 1-216-037-00 1-216-073-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 47K 330 10K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
E1-25 E1-26	*1-564-523-11 *1-564-521-11 *1-564-522-11	NECTOR> PLUG, CONNECTOR 8P PLUG, CONNECTOR 6P PLUG, CONNECTOR 7P PIN, CONNECTOR (PC BOARD) 50P		R312 R313 R314 R316 R317	1-216-043-00 1-216-035-00 1-216-061-00 1-216-035-00 1-216-121-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 270 3.3K 270 1M	55% 5555555555555555555555555555555555	1/10W 1/10W 1/10W 1/10W 1/10W	
I C301 I C302	<1C> 8-752-058-68 8-752-057-68	IC CXA1315M IC CXA1464AS		R320 R325 R326 R331 R332	1-216-039-00 1-216-033-00 1-216-057-00 1-216-017-00 1-216-657-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	390 220 2.2K 47 1.8K	5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W	
1C303 L301	8-759-106-02 <cot< td=""><td>1C UPC4570G2 L> INDUCTOR 2.7MMH</td><td></td><td>R333 R336 R338 R339 R340</td><td>1-216-051-00 1-216-047-00 1-216-043-00 1-216-047-00 1-216-651-11</td><td>METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP</td><td>1.2K 820 560 820 1K</td><td>5% 5% 5% 5% 0.50%</td><td>1/10W 1/10W 1/10W 1/10W 1/10W</td><td></td></cot<>	1C UPC4570G2 L> INDUCTOR 2.7MMH		R333 R336 R338 R339 R340	1-216-051-00 1-216-047-00 1-216-043-00 1-216-047-00 1-216-651-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	1.2K 820 560 820 1K	5% 5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W	
L307 L308	1-410-944-31 1-410-946-31	INDUCTOR CHIP 15UH INDUCTOR CHIP 22UH		R341 R343 R344 R345 R346	1-216-043-00 1-216-077-00 1-216-081-00 1-216-292-11 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 15K 22K 8.2M 22K	5%% 5%% 5%%	1/10W 1/10W 1/10W 1/8W 1/8W	
Q301 Q302 Q303 Q304 Q305	8-729-925-79 8-729-925-79 8-729-422-27 8-729-907-46 8-729-925-79	TRANSISTOR 1MX3 TRANSISTOR 1MX3 TRANSISTOR 2SD601A-Q TRANSISTOR 1MZ1 TRANSISTOR 1MX3		R347 R348 R349 R350 R351	1-216-081-00 1-216-049-00 1-216-295-00 1-216-089-00 1-216-674-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	22K 1K 0 47K 9.1K	5% 5% 5% 0.50%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q306 Q307 Q309 Q310 Q311	8-729-422-27 8-729-903-10 8-729-422-27 8-729-422-27 8-729-403-27	TRANSISTOR 2SD601A-Q TRANSISTOR FMW1 TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR XN4401		R352 R353 R354 R355 R356	1-216-011-00 1-216-001-00 1-216-049-00 1-216-001-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	27 10 1K 10	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q312 Q314 Q315 Q316 Q317	8-729-422-27 8-729-403-27 8-729-422-27 8-729-422-27 8-729-216-22	TRANSISTOR 1MX3 TRANSISTOR 1MX3 TRANSISTOR 1MX3 TRANSISTOR 2SD601A-Q TRANSISTOR 1MX3 TRANSISTOR 2SD601A-Q		R357 R358 R359 R360 R361	1-216-049-00 1-216-049-00 1-216-049-00 1-216-119-00 1-216-025-00	METAL GLAZE METAL GLAZE		5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
0321 0322 0323 0324 0325	8-729-925-79 8-729-216-22 8-729-422-27 8-729-216-22 8-729-216-22	TRANSISTOR 1MX3 TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G		R362 R363 R364 R365 R366	1-216-079-00 1-216-295-00 1-216-045-00 1-216-017-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	18K 0 680 47	555555	1/10W 1/10W 1/10W 1/10W 1/10W	
Q326 Q327 Q328 Q329 Q330	8-729-422-27 8-729-422-27 8-729-422-27 8-729-925-79 8-729-925-79	TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR 2SD601A-Q TRANSISTOR IMX3 TRANSISTOR IMX3		R367 R368 R369 R370 R371	1 · 216 · 045 · 00 1 · 216 · 001 · 00 1 · 216 · 003 · 00 1 · 216 · 033 · 00 1 · 216 · 033 · 00 1 · 216 · 033 · 00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	680 10 220 220 220	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1/10W 1/10W 1/10W 1/10W 1/10W	
Q333 Q334 Q335 Q340 Q342	8-729-925-79 8-729-422-27 8-729-907-46 8-729-422-27 8-729-925-79	TRANSISTOR IMX3 TRANSISTOR 2SD601A-Q TRANSISTOR IMZ1 TRANSISTOR 2SD601A-Q TRANSISTOR IMX3		R372 R373 R374 R375 R376	1-216-031-00 1-216-671-11 1-216-037-00 1-216-037-00 1-216-037-00	METAL GLAZE METAL CHIP METAL GLAZE METAL GLAZE	180 6.8K 330 330 330	5%	1/10W 1/10W 1/10W 1/10W 1/10W	
Q344		TRANSISTOR 2SA1162-G SISTOR>		R377 R378 R379	1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 220 220 220 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R301	1-216-025-00	METAL GLAZE 100 5% 1/10W		R380 R381	1-216-033-00 1-216-033-00		220	5%	1/10W	

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REF.NO. PART NO	. DESCRIP	TION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R382 1-216-0 R383 1-216-6 R384 1-216-0 R385 1-216-0 R386 1-216-6	53-11 METAL CH 41-00 METAL GL 81-00 METAL GL	IP 1.2K AZE 470 AZE 22K	0.50% 5%	1/10W 1/10W 1/10W		R1350 R1351 R1352	1-216-073-00 1-216-091-00 1-216-049-00 1-216-039-00 1-216-053-00			5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R387 1-216-0 R388 I-216-0 R389 1-216-0 R390 1-216-0 R391 1-216-0	33-00 METAL GL 81-00 METAL GL 33-00 METAL GL	AZE 220 AZE 22K AZE 220 AZE 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1354 R1355 R1356 R1357	1-216-081-00 1-216-017-00 1-216-057-00 1-216-081-00	METAL GLAZE	47 2.2K 22K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R393 1-216-0 R394 1-216-1 R395 1-216-0 R396 1-216-1 R397 1-216-0	09-00 METAL GL 71-00 METAL GL 05-00 METAL GL	AZE 1.2K AZE 330K AZE 8.2K AZE 220K AZE 22K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1362 R1363 R1364 R1373	1-216-105-00 1-216-041-00 1-216-053-00 1-216-049-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 1.5K 1K	5%% 55%% 55%%	1/10W 1/10W 1/10W 1/10W 1/10W	
R398 1-216-0 R399 1-216-0 R1301 1-216-0 R1302 1-216-0 R1303 1-216-0	77-00 METAL GL 49-00 METAL GL 45-00 METAL GL	AZE 15K AZE 1K AZE 680	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1379 R1380 R1381 R1382	1-216-079-00 1-216-075-00 1-216-041-00	METAL GLAZE	12K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1304 1-216-0 R1305 1-216-0 R1306 1-216-0 R1307 1-216-0 R1308 1-216-0	25-00 METAL GL 57-00 METAL GL 73-00 METAL GL	AZE 100 AZE 2.2K AZE 10K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1384 R1385 R1386 R1387	1-216-049-00 1-216-037-00 1-216-037-00 1-216-045-00 1-216-001-00	METAL GLAZE METAL GLAZE		5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1309 1-216-0 R1310 1-216-0 R1311 1-216-0 R1312 1-216-0 R1313 1-216-0	145-00 METAL GL 149-00 METAL GL 173-00 METAL GL	AZE 100 AZE 680 AZE 1K AZE 10K AZE 22K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1389 R1390 R1391 R1392	1-216-097-00 1-216-097-00 1-216-097-00	METAL GLAZE		5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R1314 1-216-0 R1315 1-216-0 R1316 1-216-0 R1317 1-216-0 R1318 1-216-0	149-00 METAL GL 181-00 METAL GL 173-00 METAL GL	AZE 1K AZE 22K AZE 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1395 R1396 R1399 R5301	1-216-081-00 1-216-125-00 1-216-065-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.5M 4.7K 2.2K	5% 5%	1/10W 1/10W 1/10W 1/10W	
R1319 1-216-0 R1320 1-216-0 R1321 1-216-0 R1322 1-216-0 R1323 1-216-0	163-00 METAL GL 181-00 METAL GL 161-00 METAL GL	.AZE 3.9K .AZE 22K .AZE 3.3K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R5304	1-216-073-00 1-216-073-00 1-216-085-00 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		5%	1/10W 1/10W 1/10W 1/10W	
R1324 1-216-0 R1325 1-216-0 R1326 1-216-0 R1327 1-216-0 R1328 1-216-0	025-00 METAL GL 073-00 METAL GL 033-00 METAL GL	AZE 100 AZE 10K AZE 220	5%	1/10W 1/10W 1/10W 1/10W 1/10W		X301 ******	<cry 1-567-505-11 *****</cry 	STAL> OSCILLATOR, (CRYSTAL	:****	*****	*****
R1329 1-216-0 R1330 1-216-0 R1331 1-216-0 R1332 1-216-0 R1333 1-216-0	081-00 METAL GL 081-00 METAL GL 093-00 METAL GL	LAZE 22K LAZE 22K LAZE 68K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W			*A-1346-137-A	E2 BOARD, COU				
R1334 1-216-0 R1335 1-216-0 R1336 1-216-0 R1337 1-216-0 R1338 1-216-0	089-00 METAL GI 089-00 METAL GI 065-00 METAL GI	AZE 47K AZE 47K AZE 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C2302 C2303 C2310 C2314 C2315	1-163-009-11 1-164-232-11 1-163-105-00 1-164-232-11 1-126-157-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	0.01MF 33PF		10% 10% 5% 10% 20%	50V 50V 50V 50V 16V
R1339 1-216-(R1340 1-216-(R1342 1-216-(R1343 1-216-) R1344 1-216-(073-00 METAL GI 033-00 METAL GI 105-00 METAL GI	LAZE 10K LAZE 220 LAZE 220K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C2316 C2317 C2318 C2320 C2321	1-126-157-11 1-126-157-11 1-164-232-11 1-124-589-11 1-163-017-00	ELECT ELECT CERAMIC CHIP ELECT CERAMIC CHIP	47MF		20% 20% 10% 20% 10%	16V 16V 50V 16V 50V
R1345 1-216-1 R1346 1-216-1 R1347 1-216-1 R1348 1-216-1	049-00 METAL GI 049-00 METAL GI	LAZE 1K Laze 1K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		C2322 C2323 C2324 C2325	1-124-234-00 1-124-234-00 1-124-234-00 1-164-232-11	ELECT ELECT ELECT CERAMIC CHIP	22MF 22MF 22MF 0.01MF		20% 20% 20% 10%	16V 16V 16V 50V



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RI	EF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO	DESCRIPTION				REMARK
1	C2327 C2328 C2329	1-124-589-11 1-164-505-11 1-164-232-11 1-164-232-11 1-164-232-11	ELECT 4 CERAMIC CHIP 2 CERAMIC CHIP 0 CERAMIC CHIP 0 CERAMIC CHIP 0	7MF 2MF .01MF .01MF	20% 10% 10% 10%	16V 16V 50V 50V 50V	Q2310	8-729-903-10 8-729-403-27 8-729-903-10 8-729-403-27	TRANSISTOR XM TRANSISTOR FM	14401 1W1			
!	C2332 C2333 C2334	1-124-234-00 1-124-234-00 1-164-232-11 1-164-232-11	ELECT 2	2MF 2MF .01MF	20% 20% 10% 10%	16V 16V 50V 50V	Q2313 Q2314 Q2315	8-729-903-10	TRANSISTOR FA TRANSISTOR XA TRANSISTOR FA	(W1 14401 (W1			
	C2336 C2337 C2338 C2341	1-126-163-11 1-164-232-11 1-163-038-00 1-135-217-21	CERAMIC CHIP O CERAMIC CHIP O TANTAL. CHIP 1	.7MF .01MF .1MF 5MF	20% 10% 20%	16V 50V 25V 6.3V	Q2318 Q2319 Q2320 Q2321 Q2321 Q2322	8-729-216-22 8-729-216-22 8-729-422-27 8-729-422-27 8-729-422-27	TRANSISTOR 29	5A1162-G 5D601A-Q 5D601A-Q			
	C2346 C2347 C2349 C2350	1-164-232-11 1-164-232-11 1-163-367-11 1-164-505-11 1-164-232-11	CERAMIC CHIP O CERAMIC CHIP O CERAMIC CHIP 3 CERAMIC CHIP 2 CERAMIC CHIP 0 CERAMIC CHIP 1		10% 5% 10%	16V 50V 50V 16V 50V	Q2324 Q2326 Q2327 Q2328 Q2329	8-729-422-27 8-729-422-27 8-729-925-79	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 10 TRANSISTOR 10	SD601A-Q SD601A-Q (X3			
1	C2352 C2353 C2354 C2357	1-164-505-11 1-164-505-11 1-164-232-11 1-164-232-11 1-126-301-11	CERAMIC CHIP 2 CERAMIC CHIP 0 CERAMIC CHIP 0 ELECT 1			16V 16V 50V 50V 50V	Q2330 Q2336 Q2337 Q2339 Q2340	8-729-925-79 8-729-422-27	TRANSISTOR IN	1X3 1X3 5D601A-Q			
i	C2360	1-163-109-00	CERAMIC CHIP 4	7PF	ጛ፟፟	50V	Q2341	8-729-422-27	TRANSISTOR 25	SD601A-Q			
	D0306	<dio< td=""><td></td><td></td><td></td><td></td><td></td><td><res< td=""><td>ISTOR></td><td></td><td></td><td></td><td></td></res<></td></dio<>						<res< td=""><td>ISTOR></td><td></td><td></td><td></td><td></td></res<>	ISTOR>				
	D2306 D2307 D2308 D2309 D2312		DIODE MATTO DIODE FMN1 DIODE MATTO DIODE MATTO				R2303	1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 1K 220	5% 1, 5% 1,	/10₩ /10₩ /10₩ /10₩ /10₩	
			DIODE MAIIO DIODE 1T33 DIODE MAIIO				R2307 R2308 R2309 R2310	1-216-045-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		5% 1, 5% 1,	/10W /10W /10W /10W	
			NECTOR>				R2311	1-216-025-00	METAL GLAZE	100	0% 1.	/10W	
	E2-26 : E2-46 :	*1-564-521-11 *1-564-522-11 *1-564-518-11 1-573-965-21	PLUG, CONNECTO PLUG, CONNECTO PLUG, CONNECTO PIN, CONNECTOR	IR 6P IR 7P IR 3P (PC BOARD) 50P		R2312 R2313 R2314 R2315 R2317	1-216-043-00 1-216-055-00 1-216-061-00 1-216-081-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	560 1.8K 3.3K 22K 470	5% 1. 5% 1. 5% 1.	/10W /10W /10W /10W /10W	
	IC2303 IC2304	8-759-925-75 8-752-037-15	IC PCA8510T/01 IC SN74HC05ANS IC CXA1387S IC MC74HC4053F				R2319 R2320	1-216-055-00 1-216-079-00 1-216-061-00 1-216-063-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1.8K 18K 3.3K 3.9K	5% 1. 5% 1. 5% 1.	/10W /10W /10W /10W /10W	
	I C2307	<c01< td=""><td>IC CXA1315M</td><td></td><td></td><td></td><td>R2323 R2324 R2325 R2326 R2327</td><td>1-216-067-00 1-216-049-00 1-216-049-00 1-216-061-00 1-216-063-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE</td><td>5.6K 1K 1K 3.3K 3.9K</td><td>5% 1 5% 1</td><td>/10W /10W /10W /10W /10W</td><td></td></c01<>	IC CXA1315M				R2323 R2324 R2325 R2326 R2327	1-216-067-00 1-216-049-00 1-216-049-00 1-216-061-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 1K 1K 3.3K 3.9K	5% 1 5% 1	/10W /10W /10W /10W /10W	
	LZ3U4	1-408-414-00		27UH			R2329	1-216-025-00 1-216-025-00	METAL GLAZE	100 100	5% 1.	/10W /10W	
	Q2301	8-729-903-10	NSISTOR> TRANSISTOR FMW				R2331	1-216-061-00 1-216-063-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 3.9K 100	5% I 5% I 5% I	/10W /10W /10W	
	Q2303 Q2304 Q2305 Q2306	8-729-403-27 8-729-925-79 8-729-903-10 8-729-403-27	TRANSISTOR XN4 TRANSISTOR IMX TRANSISTOR FMW TRANSISTOR XN4	1401 (3 V1			R2333 R2334 R2335	1-216-067-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		5% 1 5% 1	/10W /10W /10W /10W	
		8-729-403-27 8-729-403-27	TRANSISTOR XN4 TRANSISTOR XN4				1	1-216-295-00 1-216-033-00 1-216-081-00	METAL GLAZE			/10W /10W	



REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R2340 1-216-049-00 R2341 1-216-041-00 R2342 1-216-049-00 R2343 1-216-049-00 R2344 1-216-033-00	METAL GLAZE IN	K 5% 1. 70 5% 1. K 5% 1. K 5% 1. 20 5% 1.	/10W /10W /10W /10W /10W	R3314 R3315 R3316 R3318	1-216-689-11 1-216-089-00 1-216-071-00 1-216-095-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	39K 5% 47K 5% 8.2K 5% 82K 5% 82K 5%	1/100	
R2345 1-216-077-00 R2346 1-216-049-00 R2347 1-216-083-00 R2348 1-216-655-11 R2349 1-216-025-00	METAL GLAZE 1M METAL GLAZE 27 METAL CHIP 1. METAL GLAZE 10	5K 5% 1. K 5% 1. 7K 5% 1. .5K 0.50% 1. 00 5% 1.	/10W /10W /10W /10W /10W /10W	R3320 R3321 R3323 R3324 R3325	1-216-017-00 1-216-069-00 1-216-101-00 1-216-049-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47 5% 6.8K 5% 150K 5% 1K 5% 100 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R2350 1-216-097-00 R2351 1-216-033-00 R2352 1-216-097-00 R2353 1-216-097-00 R2354 1-216-210-00	METAL GLAZE 10 METAL GLAZE 3.	00K 5% 1. 20 5% 1. 00K 5% 1. 00K 5% 1. .3K 5% 1.	/10W /10W /10W /10W /8W	R3328 R3330 R3331 R3332 R3333	1-216-689-11 1-216-089-00 1-216-071-00 1-216-095-00 1-216-095-00 1-216-017-00 1-216-017-00 1-216-017-00 1-216-010-00 1-216-025-00 1-216-033-00 1-216-033-00 1-216-033-00 1-216-081-00 1-216-681-11 1-216-681-11 1-216-685-11 1-216-681-11 1-216-670-11 1-216-670-11 1-216-670-11 1-216-670-11 1-216-687-11 1-216-687-11 1-216-687-11 1-216-687-11 1-216-687-11 1-216-687-11 1-216-687-11 1-216-687-11 1-216-687-11 1-216-687-11 1-216-687-11 1-216-687-10 1-216-059-00 1-216-055-00 1-216-065-00 1-216-059-00 1-216-059-00 1-216-059-00 1-216-059-00 1-216-059-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL CHIP	10 5% 220 5% 220 5% 22K 5% 1.8K 0. 2.7K 0.	1/10W 1/10W	
R2355 1-216-178-00 R2356 1-216-677-11 R2357 1-216-670-11 R2359 1-216-053-00 R2360 1-216-053-00 R2361 1-216-053-00	METAL CHIP 12 METAL CHIP 6. METAL GLAZE 1. METAL GLAZE 1.	50 5% 1 2K 0.50% 1 .2K 0.50% 1 .5K 5% 1 .5K 5% 1	/10W /10W /10W /10W	R3335 R3336 R3337 R3339	1-216-001-11 1-216-025-00 1-216-683-11 1-216-081-00 1-216-049-00	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE	100 5% 22K 0.	1/10W 50% 1/10W 50% 1/10W	
R2362 1-216-053-00 R2363 1-216-041-00 R2364 1-216-053-00 R2365 1-216-053-00 R2366 1-216-081-00		.5K 5% 1 .5K 5% 1 70 5% 1 .5K 5% 1 .5K 5% 1	/10W /10W /10W /10W /10W	R3341 R3342 R3343 R3344 R3347	1-216-677-11 1-216-670-11 1-216-097-00 1-216-097-00 1-216-687-11	METAL CHIP METAL CHIP METAL GLAZE METAL GLAZE METAL CHIP	12K 0. 6.2K 0. 100K 5%	50% 1/10W 50% 1/10W 1/10W	
R2367 1-216-043-00 R2368 1-216-081-00 R2371 1-216-033-00 R2374 1-216-067-00 R2375 1-216-081-00	METAL GLAZE 50 METAL GLAZE 22 METAL GLAZE 22 METAL GLAZE 5	22K 5% 1 60 5% 1 22K 5% 1 22O 5% 1 6K 5% 1	/10W /10W /10W /10W /10W	R3348 R3349 R3350 R3351 R3352	1-216-681-11 1-216-073-00 1-216-065-00 1-216-065-00 1-216-073-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		50% 1/10W 1/10W 1/10W	
R2376 1-216-081-00 R2377 1-216-025-00 R2378 1-216-025-00 R2379 1-216-043-00 R2380 1-216-043-00	METAL GLAZE 22 METAL GLAZE 10 METAL GLAZE 10 METAL GLAZE 50	60 5% 1	/10W /10W /10W /10W /10W	R3356 R3357	1-216-059-00 1-216-059-00 1-216-655-11 1-216-654-11 1-216-659-11	METAL CHIP	2.7K 5% 2.7K 5% 1.5K 0. 1.3K 0.		
R2381 1-216-043-00 R2382 1-216-073-00 R2384 1-216-081-00 R2385 1-216-075-00 R2386 1-216-049-00	METAL GLAZE 50 METAL GLAZE 10 METAL GLAZE 22 METAL GLAZE 12	660 5% 1 0K 5% 1 2K 5% 1 2K 5% 1	/10W	R3359 R3360 R3361 R3362	1-216-653-11 1-216-077-00 1-216-049-00 1-216-097-00 1-216-295-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE		50% 1/10W 1/10W 1/10W 1/10W	
R2387 1-216-025-00 R2388 1-216-017-00 R2389 1-216-206-00 R2390 1-216-043-00 R2392 1-216-206-00	METAL GLAZE 4' METAL GLAZE 2 METAL GLAZE 50	00 5% 1 .7 5% 1 2.2K 5% 1 660 5% 1	/10W	İ				1/10W 1/10W 1/10W 1/10W	
R2393 1-216-017-00 R2394 1-216-049-00 R2395 1-216-001-00 R2396 1-216-206-00 R2397 1-216-043-00	METAL GLAZE 4' METAL GLAZE 11 METAL GLAZE 10 METAL GLAZE 2	17 5% 1 1K 5% 1 10 5% 1 2.2K 5% 1	//10W /10W /10W /8W /10W	R3371 R3373 R3374 R3375 R3376	1-216-001-00 1-216-673-11 1-216-059-00 1-216-658-11 1-216-647-11	METAL GLAZE METAL CHIP METAL GLAZE METAL CHIP METAL CHIP	10 5% 8.2K 0. 2.7K 5% 2K 0.	% 1/10W .50% 1/10W	
R2399 1-216-001-00 R3301 1-216-049-00 R3302 1-216-001-00 R3303 1-216-069-00 R3304 1-216-091-00	METAL GLAZE 11 METAL GLAZE 11 METAL GLAZE 11 METAL GLAZE 6	10 5% 1 1K 5% 1 10 5% 1 5.8K 5% 1	//10W 1/10W 1/10W 1/10W 1/10W	R3377 R3378 R3379 R3380 R3381	1-216-647-11 1-216-659-11 1-216-655-11 1-216-661-11 1-216-025-00	METAL CHIP METAL CHIP METAL CHIP METAL CHIP METAL GLAZE	680 0. 2.2K 0. 1.5K 0	.50% 1/10W .50% 1/10W .50% 1/10W .50% 1/10W	
R3306 1-216-089-00 R3307 1-216-085-00 R3308 1-216-043-00 R3309 1-216-049-00	METAL GLAZE 4 METAL GLAZE 3 METAL GLAZE 5 METAL GLAZE 1	17K 5% 1 33K 5% 1 560 5% 1 1K 5% 1	1/10W 1/10W 1/10W 1/10W	R3382 R3392 R3401 R7312	1-216-295-00 1-216-089-00 1-216-057-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 55 47K 55 2.2K 55 1K 55	% 1/10W % 1/10W % 1/10W % 1/10W	
R3310 1-216-001-00 R3311 1-216-081-00 R3312 1-216-049-00 R3313 1-216-083-00	METAL GLAZE 2 METAL GLAZE 1	22K 5% 1 IK 5% 1	1/10W 1/10W 1/10W 1/10W	R7313 R7314	1-216-047-00 1-216-057-00	METAL GLAZE	820 5) 2.2K 5)		

E2



REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REM	(ARK
∠cpv	STAL>				<tra< td=""><td>NS1STOR></td><td></td><td></td><td></td></tra<>	NS1STOR>			
X2301 1-577-071-11				Q001 Q009	8-729-216-22 8-729-422-27	TRANSISTOR 2S	A1162-G		
	*******			Q010	8-729-422-27 8-729-422-27	TRANSISTOR 2S TRANSISTOR 2S	D601A-Q D601A-Q		
*A-1306-436-A	M BOARD, COMPLETE			Q012	8~729-422-27	TRANSISTOR 2S			
	******			Q013 Q014	8~729-216-22 8~729-422-27	TRANSISTOR 2S TRANSISTOR 2S			
<cap< td=""><td>ACITOR></td><td></td><td></td><td></td><td><res< td=""><td>ISTOR></td><td></td><td></td><td></td></res<></td></cap<>	ACITOR>				<res< td=""><td>ISTOR></td><td></td><td></td><td></td></res<>	ISTOR>			
C002 1-163-125-00	BLECT 10MF CERAMIC CHIP 220PF FILM 0.047MF BLECT 1MF CERAMIC CHIP 220PF	20% 5%	50V 50V	R001	1~216-045-00	METAL GLAZE	680 5%	1/10W	
C003 1-136-161-00 C004 1-126-301-11	FILM 0.047MF BLECT 1MF	5% 20%	50V 50V	R002 R003	1-216-097-00 1-216-121-00	METAL GLAZE	680 5% 100K 5% 1M 5% 10K 5% 10K 5%	1/10W 1/10W	
C005 1-163-125-00		5% 20%	50V	R004 R005	1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE	10K 5% 10K 5%	1/10W 1/10W	
C014 1-124-910-11 C017 1-124-589-11 C018 1-163-141-00	BLECT 47MF BLECT 47MF CERAMIC CHIP 0.001MF	20%	16V 50V	R006 R007	1-216-065-00 1-216-027-00	METAL GLAZE METAL GLAZE	4.7K 5% 120 5%	1/10W 1/10W	
C019 1-164-695-11 C020 1-163-241-11	CERAMIC CHIP 0.0022MF CERAMIC CHIP 39PF	5% 5% 5%	50V 50V	R008 R009	1-216-041-00 1-216-027-00	METAL GLAZE METAL GLAZE	4.7K 5% 120 5% 470 5% 120 5% 220 5%	1/10W 1/10W	
CO21 1-163-239-11			50V	R011	1-216-033-00	METAL GLAZE		1/10W	
C029 1-163-115-00 C030 1-163-115-00	CERAMIC CHIP 33PF CERAMIC CHIP 82PF CERAMIC CHIP 82PF CERAMIC CHIP 220PF CERAMIC CHIP 220PF	5% 5%	50V 50V	R012 R013	1-216-033-00 1-216-067-00	METAL GLAZE	220 5% 5.6K 5% 2.2K 5% 47K 5% 5.6K 5%	1/10W 1/10W	
C034 1-163-125-00 C035 1-163-125-00	CERAMIC CHIP 220PF CERAMIC CHIP 220PF	5% 5%	50V 50V	R014 R015 R016	1-216-057-00 1-216-089-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 5% 47K 5% 5.6K 5%	1/10W 1/10W 1/10W	
C036 1-163-125-00 C041 1-163-117-00	CERAMIC CHIP 220PF CERAMIC CHIP 100PF CERAMIC CHIP 100PF CERAMIC CHIP 220PF ELECT 10MF	5% 5%	50V 50V	R017	1-216-067-00	METAL GLAZE		1/10W	
C042 1-163-117-00 C045 1-163-125-00	CERAMIC CHIP 100PF CERAMIC CHIP 220PF	5% 5%	50V 50V	RO18 RO19	1-216-065-00 1-216-073-00	METAL GLAZE METAL GLAZE	4.7K 5% 10K 5%	1/10W 1/10W	
C047 1-124-261-00			50V	R033 R034	1-216-073-00 1-216-033-00	METAL GLAZE METAL GLAZE	10K 5% 220 5%	1/10W 1/10W	
C048 1-124-261-00 C049 1-124-261-00 C055 1-163-809-11	ELECT 10MF ELECT 10MF CERAMIC CHIP 0.047MF	20%	50V 50V 25V	R035 R036	1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE	220 5% 220 5%	1/10W 1/10W	
C064 1-163-121-00 C065 1-124-257-00	CERAMIC CHIP 150PF ELECT 2.2MF	10% 5% 20%	50V 50V	R037 R038	1-216-073-00 1-216-033-00	METAL GLAZE METAL GLAZE	220 5% 220 5% 10K 5% 220 5% 10K 5%	1/10W 1/10W	
		20%	30.	R039	1-216-073-00	METAL GLAZE		1/10W	
<010				RO40 RO41	1-216-089-00 1-216-057-00	METAL GLAZE METAL GLAZE	47K 5% 2.2K 5% 4.7K 5%	1/10W 1/10W	
D002 8-719-404-46	DIODE MAIIO DIODE MAIIO			R042 R043	1-216-065-00 1-216-033-00	METAL GLAZE	220 5%	1/10W 1/10W	
D010 8-713-300-57	DIODE MAIIO DIODE 1733 DIODE MAIIO			R044	1-216-033 00 1-216-025-00	METAL GLAZE	220 5% 100 5%	1/10W 1/10W	
D011 8 719 404 40	DIODE MAILO			RO46 RO47	1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE	4.7K 5%	1/10W 1/10W	
D014 8-719-404-46 D015 8-719-404-46	DIODE MA110			R048 R049	1-216-033-00 1-216-065-00	METAL GLAZE METAL GLAZE	4.7K 5% 220 5% 4.7K 5%	1/10W 1/10W	
4.0				R050	1-216-295-00	METAL GLAZE		1/10₩	
<10>				R051	1-216-033-00 1-216-065-00	METAL GLAZE METAL GLAZE	0 5% 220 5% 4.7K 5% 4.7K 5% 10K 5%	1/10W 1/10W	
IC001 8-759-169-06 IC002 8-759-403-44				R053 R054	1-216-065-00 1-216-073-00	METAL GLAZE METAL GLAZE	4.7K 5% 10K 5%	1/10W 1/10W	
<c01< td=""><td>L></td><td></td><td></td><td>R055 R056</td><td>1-216-073-00 1-216-065-00</td><td>METAL GLAZE METAL GLAZE</td><td>10K 5% 4.7K 5%</td><td>1/10W 1/10W</td><td></td></c01<>	L>			R055 R056	1-216-073-00 1-216-065-00	METAL GLAZE METAL GLAZE	10K 5% 4.7K 5%	1/10W 1/10W	
L001 1-408-409-00	INDUCTOR 10UH			R057 R058	1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE	4.7K 5% 4.7K 5%	1/10W 1/10W	
L002 1-410-476-11	INDUCTOR 33UH			R059	1-216-073-00	METAL GLAZE		1/10W	
<con< td=""><td>NNECTOR></td><td></td><td></td><td>R060 R063 R064</td><td>1-216-065-00 1-216-033-00 1-216-053-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE</td><td>4.7K 5% 220 5% 1.5K 5%</td><td>1/10W 1/10W 1/10W</td><td></td></con<>	NNECTOR>			R060 R063 R064	1-216-065-00 1-216-033-00 1-216-053-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 5% 220 5% 1.5K 5%	1/10W 1/10W 1/10W	
M-39 *1-564-521-11 M-45 *1-564-523-11				R065	1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE	220 5% 220 5%	1/10W 1/10W	
	PIN, CONNECTOR (PC BOARE) 50P		R067	1 216-033 00	METAL GLAZE		1/10W	
				R068	1 216 033 00	METAL GLAZE	220 5% 220 5%	1/10W	



REF.NO. PART NO.	DESCRIPTION		REMARK	i	PART NO.				REMARK
R069 1-216-049-00 R070 1-216-033-00 R071 1-216-033-00 R072 1-216-033-00 R073 1-216-057-00	METAL GLAZE 1K 5% METAL GLAZE 220 5% METAL GLAZE 220 5% METAL GLAZE 220 5% METAL GLAZE 2.2K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		!		MYLAR CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP			50V 50V 50V 50V
R074 1-216-033-00 R075 1-216-033-00 R076 1-216-089-00 R077 1-216-057-00 R078 1-216-033-00	METAL GLAZE 220 5% METAL GLAZE 220 5% METAL GLAZE 47K 5% METAL GLAZE 2.2K 5% METAL GLAZE 2.2 5%	1/10W 1/10W 1/10W 1/10W		C3024	1-163-115-00 1-126-301-11 1-124-589-11 1-163-018-00 1-164-343-11	CERAMIC CHIP : ELECT ELECT CERAMIC CHIP : CERAMIC CHIP :	0.0056MF	5% 20% 20% 10% 10%	50V 50V 16V 50V 25V
R079 1-216-025-00 R080 1-216-061-00 R081 1-216-033-00 R082 1-216-033-00 R083 1-216-033-00	METAL GLAZE 100 5% METAL GLAZE 3.3K 5% METAL GLAZE 220 5% METAL GLAZE 220 5% METAL GLAZE 220 5%			C3027	1-126-163-11 1-163-275-11 1-124-589-11 1-163-133-00 1-163-037-11	ELECT CERAMIC CHIP ELECT CERAMIC CHIP CERAMIC CHIP	0.001MF 47MF 470PF	20% 5% 20% 5% 10%	50V 50V 16V 50V 25V
R084 1-216-097-00 R085 1-216-033-00 R086 1-216-033-00 R087 1-216-033-00	MBTAL GLAZE 100K 5% METAL GLAZE 220 5% METAL GLAZE 220 5% METAL GLAZE 220 5%	1/10W		C3032 C3033 C3034	1-126-177-11 1-164-004-11 1-164-004-11 1-164-336-11 1-163-117-00	ELECT CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF 0.1MF 0.33MF	20% 10% 10% 5%	6.3V 25V 25V 25V 50V
R088 1-216-033-00 R089 1-216-089-00 R090 1-216-033-00 R091 1-216-065-00 R092 1-216-077-00	METAL GLAZE 47K 5% METAL GLAZE 22O 5% METAL GLAZE 4.7K 5% METAL GLAZE 15K 5%			C3037 C3038 C3039	1-164-004-11 1-124-589-11 1-136-287-11 1-164-004-11 1-164-232-11	ELECT	47MF 0.0047MF 0.1MF	10% 20% 5% 10% 10%	25V 16V 50V 25V 50V
R093 1-216-065-00 R094 1-216-033-00 R095 1-216-073-00 R096 1-216-065-00 R097 1-216-065-00	METAL GLAZE 220 5% METAL GLAZE 10K 5% METAL GLAZE 4.7K 5% METAL GLAZE 4.7K 5%			C3043 C3044 C3045	1-164-346-11 1-124-465-00 1-126-301-11 1-124-589-11 1-126-301-11	ELECT ELECT ELECT	Ω 47MF	20% 20% 20% 20%	16V 50V 50V 16V 50V
R098 1-216-065-00 R099 1-216-089-00 R100 1-216-025-00 R101 1-216-025-00 R102 1-216-089-00	METAL GLAZE 47K 5% METAL GLAZE 100 5% METAL GLAZE 100 5% METAL GLAZE 47K 5%			C3048 C3051 C3052	1-126-301-11 1-164-161-11 1-164-161-11 1-126-177-11 1-164-004-11	BLECT	0.0022MF 0.0022MF 100MF	20% 10% 10% 20% 10%	50V 50V 50V 6.3V 25V
	METAL GLAZE 220 5% METAL GLAZE 220 5% YSTAL>			C3055 C3057 C3058	1-126-177-11 1-163-133-00 1-124-589-11 1-163-009-11 1-164-222-11	CERAMIC CHIP ELECT CERAMIC CHIP	47MF 0.001MF	20% 5% 20% 10%	6.3V 50V 16V 50V 25V
	VIBRATOR, CRYSTAL			1				20%	16 V
***********	*********	******	*****	C3064 C3065	1-163-123-00 1-124-589-11	BLECT CRRAMIC CHIP BLECT CERAMIC CHIP BLECT	180PF 47MF	5% 20% 10%	50V 16V 25V
*A-1195-066-A	P1 BOARD, COMPLETE			C3067	1-124-589-11	ELECT	47MF	20%	16V
<ca< td=""><td>PACITOR></td><td></td><td></td><td>C3069 C3070 C3071 C3072</td><td>1-164-232-11 1-126-177-11 1-124-589-11 1-124-589-11</td><td>CERAMIC CHIP BLECT BLECT BLECT</td><td>0.01MF 100MF 47MF 47MF</td><td>10% 20% 20% 20%</td><td>50V 6.3V 16V 16V</td></ca<>	PACITOR>			C3069 C3070 C3071 C3072	1-164-232-11 1-126-177-11 1-124-589-11 1-124-589-11	CERAMIC CHIP BLECT BLECT BLECT	0.01MF 100MF 47MF 47MF	10% 20% 20% 20%	50V 6.3V 16V 16V
C3001 1-124-589-11 C3002 1-164-346-11 C3003 1-164-232-11 C3004 1-163-119-00	CERAMIC CHIP IMP CERAMIC CHIP 0.01MF CERAMIC CHIP 120PF	20% 10% 5%	16V 16V 50V 50V	C3073 C3074 C3076	1-124-589-11 1-163-121-00 1-164-004-11	CERAMIC CHIP	0.1MF	20% 5% 10%	16V 50V 25V
C3005 1-163-235-11 C3006 1-164-232-11		5% 10%	50V 50V	C3077 C3081 C3100	1-164-005-11 1-163-095-00 1-164-004-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	12PF	5% 10%	25V 50V 25V
C3007 1-164-005-11 C3008 1-164-004-11 C3009 1-124-925-11 C3010 1-163-145-00	CERAMIC CHIP 0.47MF CERAMIC CHIP 0.1MF ELECT 2.2MF	10% 20% 5%	25V 25V 25V 50V 50V	į.		CERAMIC CHIP		5%	50V
C3011 1-163-018-00	CERAMIC CHIP 0.0056MF	10%	50V			NNECTOR>	on (ng	.) ===	
C3012 1-164-336-11 C3013 1-164-222-11 C3014 1-164-004-11 C3015 1-164-232-11	CERAMIC CHIP 0.22MF CERAMIC CHIP 0.1MF	10% 10%	25V 25V 25V 50V	CN151		PIN, CONNECTO DDE>	OR (PC BOAR)	D) 50P	
C3016 1-163-107-00	CERAMIC CHIP 39PF	5%	50 V	D3003	8-719-158-15	DIODE RD5.6SE	3		



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
D3004 8-719-404-46 D3009 8-719-404-46	DIODE MA110		R3015 R3017 R3018	1-216-065-00 1-216-049-00 1-216-083-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 5% 1K 5% 27K 5% 100K 5%	1/10W 1/10W 1/10W 1/10W	
IC3001 8-759-046-25 IC3002 8-759-009-46 IC3003 8-759-513-48 IC3004 8-759-088-90 IC3005 8-759-088-91	IC MC14528BF IC TDA2595/V9		R3020	1-216-077-00 1-216-099-00 1-216-075-00 1-216-065-00 1-216-015-00 1-216-041-00	METAL GLAZE	15K 5% 120K 5% 12K 5% 4.7K 5% 39 5% 470 5% 3.3K 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	
1C3006 8-759-112-06 1C3007 8-759-046-27 1C3008 8-759-112-06	1C SDA9086-3 1C UPC78N05H		R3027 R3028 R3030 R3031 R3032 R3033	1-216-061-00 1-216-027-00 1-216-073-00 1-216-047-00 1-216-041-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 5% 120 5% 10K 5% 820 5% 470 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	
L3001 1-410-476-11 L3002 1-408-424-00 L3003 1-408-424-00 L3004 1-410-470-11 L3005 1-410-472-41	INDUCTOR 33UH INDUCTOR 180UH INDUCTOR 180UH INDUCTOR 10UH INDUCTOR 15UH		R3034 R3035 R3036 R3037 R3038	1-216-041-00 1-216-045-00 1-216-045-00 1-216-083-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 5% 680 5% 680 5% 27K 5% 1K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
L3006 1-412-788-41 L3007 1-410-472-41 L3009 1-410-472-41 L3009 1-410-472-41 L3010 1-410-466-41	INDUCTOR 10UH INDUCTOR 15UH INDUCTOR 15UH INDUCTOR 15UH INDUCTOR 15UH INDUCTOR 4.7UH		R3039 R3040 R3041 R3042 R3043	1-216-073-00 1-216-065-00 1-216-073-00 1-216-057-00 1-216-099-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 5% 4.7K 5% 10K 5% 2.2K 5% 120K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
L3011 1-410-470-11 L3012 1-410-676-31 L3013 1-412-911-11 L3014 1-412-911-11 L3015 1-412-911-11	INDUCTOR 10UH INDUCTOR 150UH INDUCTOR, FERRITE BEAD INDUCTOR, FERRITE BEAD INDUCTOR, FERRITE BEAD		R3044 R3045 R3050 R3052 R3053	1-216-089-00 1-216-295-00 1-216-033-00 1-216-033-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 5% 0 5% 220 5% 220 5% 330 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
	INDUCTOR 82UH ANSISTOR>		R3055 R3056 R3057 R3058	1-216-063-00 1-216-059-00 1-216-081-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 5% 2.7K 5% 22K 5% 1K 5% 18K 5%	1/10W 1/10W 1/10W 1/10W	
Q3004 8-729-422-27 Q3006 8-729-422-27 Q3007 8-729-216-22 Q3008 8-729-422-27	TRANSISTOR 2SD601A-Q TRANSISTOR 2SA1162-G TRANSISTOR 2SD601A-Q		R3059 R3060 R3061 R3062 R3063	1-216-079-00 1-216-065-00 1-216-049-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 5% 1K 5% 1K 5% 100 5%	1/10W 1/10W 1/10W 1/10W	
Q3009 8-729-216-22 Q3010 8-729-422-27 Q3011 8-729-216-22 Q3012 8-729-422-27 Q3013 8-729-422-27			R3064 R3065 R3066 R3067 R3069	1-216-295-00 1-216-073-00 1-216-053-00 1-216-295-00 1-216-689-11 1-216-049-00		0 5% 10K 5% 1.5K 5% 0 5% 39K 5% 1K 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	
Q3100 8-729-216-22 <re 1-216-295-00<="" jr3="" td=""><td>TRANSISTOR 2SA1162-G SISTOR> METAL GLAZE 0 5% 1/3</td><td>10W</td><td>R3073 R3074 R3075 R3076 R3077</td><td>1-216-049-00 1-216-295-00 1-216-049-00 1-216-043-00 1-216-037-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE</td><td>1K 5% 0 5% 1K 5% 560 5% 330 5%</td><td>1/10W 1/10W 1/10W 1/10W 1/10W</td><td></td></re>	TRANSISTOR 2SA1162-G SISTOR> METAL GLAZE 0 5% 1/3	10W	R3073 R3074 R3075 R3076 R3077	1-216-049-00 1-216-295-00 1-216-049-00 1-216-043-00 1-216-037-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 5% 0 5% 1K 5% 560 5% 330 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R3001 1-216-085-00 R3002 1-216-089-00 R3003 1-216-067-00 R3004 1-216-091-00 R3005 1-216-689-11	METAL GLAZE 47K 5% 1/: METAL GLAZE 5.6K 5% 1/: METAL GLAZE 56K 5% 1/: METAL GLAZE 39K 5% 1/:	10W 10W 10W 10W	R3078 R3079 R3082 R3084 R3085	1-216-044-00 1-216-040-00 1-216-029-00 1-216-049-00 1-216-119-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	620 5% 430 5% 150 5% 1K 5% 820K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R3006 1-216-097-00 R3007 1-216-079-00 R3008 1-216-073-00 R3009 1-216-041-00	METAL GLAZE 18K 5% 1/ METAL GLAZE 10K 5% 1/ METAL GLAZE 470 5% 1/ METAL GLAZE 1K 5% 1/	10W 10W 10W 10W	R3086 R3087 R3088 R3089 R3090	1-216-065-00 1-216-081-00 1-216-089-00 1-216-033-00 1-216-089-00		4.7K 5% 22K 5% 47K 5% 220 5% 47K 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R3011 1-216-073-00 R3012 1-216-053-00 R3013 1-216-065-00	METAL GLAZE 1.5K 5% 1/	10W 10W 10W	R3091 R3092	1-216-053-00 1 216 053 00		1.5K 5% 1.5K 5%	1/10W 1/10W	





REF.NO.	PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
R3099 R3100 R3101	1-216-296-00 1-216-296-00 1-216-296-00 1-216-051-00 1-216-047-00	METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 0 5% METAL GLAZE 1.2K 5% METAL GLAZE 820 5%	1/8W 1/10W 1/10W		C2542 C2543 C2544	1-163-139-00 1-124-478-11 1-124-252-00 1-164-161-11 1-126-301-11	CERAMIC CHIP 820PF ELECT 100MF ELECT 0.33MF CERAMIC CHIP 0.0022MF ELECT 1MF	5% 20% 20% 10% 20%	50V 25V 50V 50V 50V
R3103 R3104		METAL GLAZE 2.2K 5% METAL GLAZE 1K 5% IABLE RESISTOR>					BLECT 4.7MF BLECT 4.7MF CLECT 4.7MF BLECT 4.7MF BLECT 4.7MF	20% 20% 10% 20% 20%	50V 25V 25V 50V 25V
RV3002	1-241-630-11 1-238-019-11 1-241-630-11	METAL GLAZE 1K 5% IABLE RESISTOR> RES, ADJ, CARBON 10K RES, ADJ, CARBON 47K RES, ADJ, CARBON 10K STAL> OSCILLATOR, CRYSTAL			C2551 C2552 C2553 C2554 C25554	1-126-301-11 1-126-163-11 1-126-301-11 1-124-234-00 1-164-004-11	ELECT 1MF ELECT 4.7MF ELECT 1MF ELECT 1MF ELECT 22MF CERAMIC CHIP 0.1MF	20% 20% 20% 20% 10%	50V 50V 50V 16V 25V
		OSCILLATOR, CRYSTAL			1 (2557	1-124-257-00 1-124-234-00 1-126-301-11	ELECT ZZMP	20% 20% 20%	50V 16V 50V
		X2 BOARD, COMPLETE			C2559 C2560	1-164-004-11	CERAMIC CHIP 0.1MF CERAMIC CHIP 0.0022MF	10% 10%	25V 50V
C2E01	<cap< td=""><td>ACITOR></td><td>10%</td><td>50V</td><td>C2561 C2562 C2563 C2564 C2565</td><td>1-126-301-11 1-163-263-11 1-163-257-11 1-126-301-11 1-126-163-11</td><td>CERAMIC CHIP 330PF CERAMIC CHIP 180PF</td><td>20% 5% 5% 20% 20%</td><td>50V 50V 50V 50V 50V</td></cap<>	ACITOR>	10%	50V	C2561 C2562 C2563 C2564 C2565	1-126-301-11 1-163-263-11 1-163-257-11 1-126-301-11 1-126-163-11	CERAMIC CHIP 330PF CERAMIC CHIP 180PF	20% 5% 5% 20% 20%	50V 50V 50V 50V 50V
C2502 C2503	1-163-020-00 1-163-020-00 1-163-001-11 1-126-163-11 1-163-020-00	CERAMIC CHIP 0.0082MF CERAMIC CHIP 0.0082MF CERAMIC CHIP 220PF BLBCT 4.7MF CERAMIC CHIP 0 0082MF	10% 10% 20% 10%	50V 50V 50V 50V	C2566 C2567	1-126-163-11 1-126-163-11	ELECT 4.7MF	20% 20% 5% 5%	50V 50V 50V 50V
C2508 C2509	1-163-020-00 1-163-017-00 1-163-020-00 1-163-020-00 1-163-989-11	CERAMIC CHIP 0.0082MF CERAMIC CHIP 0.0047MF CERAMIC CHIP 0.0082MF CERAMIC CHIP 0.0082MF CERAMIC CHIP 0.033MF	10% 10% 10% 10% 10%	50V 50V 50V 50V 25V	C2570 C2571 C2572 C2573	1-124-234-00 1-126-301-11 1-126-163-11 1-124-234-00	ELECT 22MF ELECT 1MF ELECT 4.7MF ELECT 22MF	20% 20% 20% 20%	16V 50V 50V 16V
C2512 C2513 C2514	1-164-004-11 1-164-004-11 1-164-004-11 1-164-004-11 1-164-004-11	CERAMIC CHIP 0 1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF CERAMIC CHIP 0.1MF	10% 10% 10% 10% 10%	25V 25V 25V 25V 25V	C2574 C2575 C2576 C2577 C2578	1-126-301-11 1-126-301-11 1-126-301-11 1-126-163-11 1-126-163-11	ELECT 4.7MF	20% 20% 20% 20% 20% 20%	50V 50V 50V 50V 50V
C2516 C2517 C2518	1-164-232-11 1-126-157-11 1-126-163-11	CERAMIC CHIP 0.01MF ELECT 10MF ELECT 4.7MF	10% 20% 20%	50V 16V 50V	C2579 C2580 C2581	1-126-103-11 1-124-478-11 1-163-109-00	ELECT 470MF ELECT 100MF CERAMIC CHIP 47PF	20% 20% 5%	16V 25V 50V
C2520		ELECT 4.7MF	20% 20% 10%	50V 50V 25V	C2582 C2583 C2584 C2585	1-124-477-11 1-126-163-11 1-163-109-00 1-126-163-11	BLECT 47MF ELECT 4.7MF CERAMIC CHIP 47PF ELECT 4.7MF	20% 20% 5% 20%	25V 50V 50V 50V
C2521 C2522 C2523 C2524 C2525	1-163-809-11 1-124-252-00 1-126-163-11 1-164-004-11 1-126-163-11	CERAMIC CHIP 0.047MF BLECT 0.33MF BLECT 4.7MF CERAMIC CHIP 0.1MF BLECT 4.7MF	20% 20% 20% 10% 20%	50V 50V 25V 50V	C2586 C2587 C2588 C2589	1-163-009-11 1-126-163-11 1-126-163-11 1-126-163-11	CERAMIC CHIP 0.001MF ELECT 4.7MF ELECT 4.7MF ELECT 4.7MF	10% 20% 20% 20%	50V 50V 50V 50V
C2526 C2527 C2528 C2529 C2530	1-164-004-11 1-126-157-11 1-124-465-00 1-163-989-11 1-164-182-11	CERAMIC CHIP 0.1MF ELECT 10MF ELECT 0.47MF CERAMIC CHIP 0.033MF CERAMIC CHIP 0.0033MF	10% 20% 20% 10% 10%	25V 16V 50V 25V 50V	C2590	1-126-163-11	ELECT 4.7MF	20% 20%	50V 25V
C2531 C2532 C2533 C2534 C2535	1-126-301-11 1-126-301-11 1-124-261-00	ELECT 1MF ELECT 1MF ELECT 10MF CERAMIC CHIP 180PF CERAMIC CHIP 0.1MF	20% 20% 20% 5% 10%	50V 50V 50V 50V 50V 25V	D2501 D2502 D2503 D2504	8-719-104-34 8-719-106-88	DIODE RD15M-B1		
C2536 C2537 C2538 C2539 C2540	1-164-004-11 1-126-163-11 1-126-163-11 1-164-232-11 1-164-004-11	CERAMIC CHIP 0.1MF ELECT 4.7MF ELECT 4.7MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.1MF	10% 20% 20% 10% 10%	25V 50V 50V 50V 25V	IC250	<1C 1 8-759-031-31 2 8-752-050-75	IC MC33174M		



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
I C2504 I C2505 I C2506	8-759-604-70 8-759-106-22	IC M51523AL IC MC33174M IC M51523AL IC UPD4052BG IC MC33172ML					R2549 R2550 R2551 R2552	1-216-065-00 1-216-088-00 1-216-088-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 43K 43K 1K	5%	1/10W 1/10W 1/10W 1/10W	
	8-759-038-68 SJAC	IC MC33172ML					R2556	1-216-078-00 1-216-082-00 1-216-089-00 1-216-049-00 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	16K 24K 47K 1K 33K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
J2501	1-573-966-11 <trai< td=""><td>PIN, CONNECTO</td><td>R (PC E</td><td>BOARD)</td><td>36P</td><td></td><td>R2560 R2561</td><td>1-216-088-00 1-216-091-00 1-216-103-00 1-216-097-00 1-216-089-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE</td><td>43K 56K 180K 100K 47K</td><td>5% 5% 5% 5%</td><td>1/10W 1/10W 1/10W 1/10W 1/10W</td><td></td></trai<>	PIN, CONNECTO	R (PC E	BOARD)	36P		R2560 R2561	1-216-088-00 1-216-091-00 1-216-103-00 1-216-097-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	43K 56K 180K 100K 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
		ISTOR>			1.400		R2563 R2564 R2565 R2566	1-216-088-00 1-216-088-00 1-216-103-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	43K 43K 180K 10K	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W 1/10W	
R2501 R2502 R2503 R2504 R2505		METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	18K 100K 56K 330K 330K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R2568 R2569 R2570	1-216-073-00 1-216-049-00 1-216-097-00 1-216-091-00 1-216-078-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 1K 100K 56K 16K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R2506 R2507 R2508 R2509 R2510	1-216-101-00 1-216-091-00 1-216-079-00 1-216-130-11 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	150K 56K 18K 2.4M 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R2572 R2573 R2574 R2575	1-216-049-00 1-216-082-00 1-216-085-00 1-216-089-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 24K 33K 47K 1K	5 555555	1/10W 1/10W 1/10W 1/10W 1/10W	
R2511 R2512 R2513 R2514 R2515		METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	33K 180K 33K 180K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R2577 R2578 R2579 R2580	1-216-081-00 1-216-081-00 1-216-049-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 22K 1K 22K	5 55555	1/10W 1/10W 1/10W 1/10W	
R2516 R2517 R2518 R2519 R2520		METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 3.3M 9.1K 3.3M 3.3M	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R2581 R2582 R2583 R2584 R2585	1-216-081-00 1-216-083-00 1-216-083-00 1-216-081-00 1-216-073-00	METAL GLAZE	22K 27K 27K 22K 10K	55 555555	1/10W 1/10W 1/10W 1/10W 1/10W	
R2521 R2522 R2523 R2524	1-216-133-00 1-216-061-00 1-216-077-00 1-216-129-00	METAL GLAZE	3.3M 3.3K 15K 2.2M 3.3M	5% 5%	1/10W 1/10W 1/10W 1/10W		R2586 R2587	1-216-085-00 1-216-085-00 1-216-085-00 1-216-081-00 1-216-079-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	33K 33K 33K 22K 18K		1/10W 1/10W 1/10W 1/10W 1/10W	
R2526 R2527 R2528 R2529 R2530	1-216-133-00 1-216-081-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3M 22K 22K 22K 3.3M	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R2590 R2591 R2592 R2593 R2594	1-216-073-00 1-216-073-00 1-216-079-00 1-216-073-00		10K 10K 10K	555 5555	1/10W 1/10W 1/10W 1/10W	
R2531 R2532 R2533 R2534	1-216-089-00 1-216-133-00 1-216-089-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 3.3M 47K 10K	5% %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W		R2595 R2596 R2597 R2598	1-216-089-00 1-216-049-00 1-216-049-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 1K 1K 47K	5% 5%	1/10W 1/10W 1/10W 1/10W	
R2535 R2536 R2537 R2539	1-216-073-00 1-216-129-00 1-216-077-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 2.2M 15K 3.3K	5%	1/10W 1/10W 1/10W 1/10W		R2599 R2600 R2601 R2602	1-216-073-00 1-216-049-00 1-216-089-00 1-216-073-00		10K 1K 47K 10K 47K	5%% 5%% 5%% 5%% 5%% 5%%	1/10W 1/10W 1/10W 1/10W	
R2540 R2541 R2542 R2543 R2544	1-216-069-00 1-216-081-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	12K 6.8K 22K 22K 10K	5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R2604 R2605 R2606 R2610 R2611	1-216-089-00 1-216-049-00 1-216-049-00 1-216-125-00 1-216-125-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 1.5M 1.5M	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R2545 R2546 R2547 R2548	1-216-048-00 1-216-133-00 1-216-133-00	METAL GLAZE METAL GLAZE METAL GLAZE	910 3.3M 3.3M	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R2612 R2613 R2614 R2615 R2616	1-216-125-00 1-216-125-00 1-216-125-00 1-216-125-00 1-216-125-00	METAL GLAZE METAL GLAZE METAL GLAZE	1.5M 1.5M 1.5M 1.5M 1.5M	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	





REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
	1-216-125-00 1-216-061-00		1.5M 5% 3.3K 5%	1/10W 1/10W		C481	1-124-768-11		4.7MF		:0%	50V
R2619	1-216-049-00	METAL GLAZE	1K 5%	1/10W		C483	1-126-163-11 1-163-113-00	ELECT CERAMIC CHIP CERAMIC CHIP	68PF	2 5 5		50V 50V 50V
	*A-1394-443-A	Y2 BOARD, COM	YPLETE	de de de de de de de de	*****	C485 C487	1-163-038-00 1-164-232-11	CERAMIC CHIP	0.1MF		.0%	25V 50V
		**********	*****			C488	1-164-232-11	CERAMIC CHIP	0.01MF	1	0%	50 V
G401		ACITOR>	OOME.	20%	160		<dio< td=""><td>DE></td><td></td><td></td><td></td><td></td></dio<>	DE>				
C401 C424 C425 C426 C427	1-124-234-00 1-126-301-11 1-126-301-11 1-126-301-11 1-124-465-00	ELECT ELECT	22MF 1MF 1MF 1MF 0.47MF	20% 20% 20% 20% 20%	16V 50V 50V 50V 50V	D405 D406 D407 D408 D409	8-719-107-13 8-719-107-13	DIODE RD18M-B DIODE RD18M-B DIODE RD18M-B DIODE RD5.1M- DIODE RB100A	1			
C428 C429 C430 C431 C432	1-126-163-11 1-124-478-11 1-124-261-00 1-126-301-11 1-126-301-11		4.7MF 100MF 10MF 1MF 1MF	20% 20% 20% 20% 20%	50V 25V 50V 50V 50V	D410 D413 D414 D415	8-719-158-55	DIODE RD6.2SB				
C433 C434 C435 C436 C437	1-131-347-00 1-126-301-11 1-130-309-00 1-126-301-11 1-130-487-00	TANTALUM ELECT FILM ELECT MYLAR	1MF 1MF 0 033MF 1MF 0.022MF	20% 20% 5% 20% 5%	16V 50V 100V 50V 50V	IC404	<1C> 8-759-996-43 8-759-067-24	IC 24CO4AI/P				
C438 C439 C440 C441 C442	1-126-301-11 1-124-034-51 1-126-301-11 1-126-301-11 1-124-261-00	ELECT ELECT ELECT ELECT ELECT	1MF 33MF 1MF 1MF 10MF	20% 20% 20% 20% 20%	50V 16V 50V 50V 50V	IC407	8-752-057-18	IC TA8184P				
C443 C446 C447 C448 C449	1-124-589-11 1-124-234-00 1-126-301-11 1-136-170-00 1-163-009-11	BLECT BLECT BLECT FILM CERAMIC CHIP	47MF 22MF 1MF 0.27MF 0.001MF	20% 20% 20% 5% 10%	16V 16V 50V 50V 50V	Q404 Q405 Q409 Q410	8-729-216-22 8-729-422-27	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	A1162-G D601A-Q			
C450 C451	1-130-475-00 1-124-261-00	MYLAR ELECT	0.0022MF 10MF	5% 20%	50V 50V			ISTOR>				
C452 C453 C454	1-124-261-00 1-130-475-00 1-131-368-00	ELECT MYLAR TANTALUM	10MF 0.0022MF 3.3MF	20% 5% 10%	50V 50V 16V	R447 R453 R464 R465	1-216-081-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 220 22K 22K 100	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
C455 C456 C457 C458 C459	1-131-347-00 1-136-171-00 1-136-175-00 1-126-101-11 1-126-101-11	TANTALUM FILM FILM ELBCT ELBCT	1MF 0.33MF 0.68MF 100MF 100MF	20% 5% 5% 20% 20%	16V 50V 50V 16V 16V	R466 R467 R468 R469	1-216-025-00 1-216-033-00 1-216-035-00	METAL GLAZE METAL GLAZE METAL GLAZE	220		1/10W 1/10W 1/10W	
C460 C461	1-126-101-11 1-124-499-11	ELECT ELECT	100MF 1MF	20% 20%	16V 50V	R470 R471	1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE	220 220		1/10W 1/10W	
C462 C465 C466	1-124-499-11 1-130-485-00 1-130-485-00	ELECT MYLAR MYLAR	1MF 0.015MF 0.015MF	20% 5% 5%	50V 50V 50V	R472 R473 R474 R475	1-216-686-11 1-216-295-00 1-216-295-00 1-216-055-00	METAL CHIP METAL GLAZE METAL GLAZE METAL GLAZE	30K 0 0 1.8K	0.50% 5% 5%	1/10W 1/10W 1/10W	
C467 C468 C469 C470 C471	1-136-169-00 1-136-169-00 1-126-157-11 1-126-157-11 1-124-589-11	FILM FILM ELECT ELECT ELECT	0.22MF 0.22MF 10MF 10MF 47MF	5% 5% 20% 20% 20%	50V 50V 16V 16V 16V	R476 R477 R478 R479	1-216-669-11 1-216-675-11 1-216-089-00 1-216-669-11 1-216-675-11	METAL CHIP METAL CHIP METAL GLAZE METAL CHIP METAL CHIP	10K	0.50% 0.50% 5% 0.50% 0.50%	1/10W	
C472 C473 C474	1-164-232-11 1-164-232-11 1-124-234-00	CERAMIC CHIP CERAMIC CHIP ELECT	0.01MF 22MF	10% 10% 20%	50V 50V 16V	R480 R481 R482	1-216-089-00 1-216-089-00	METAL GLAZE METAL GLAZE	47K 47K	5%	1/10W 1/10W	
C475 C476	1-164-232-11 1-124-234-00	CERAMIC CHIP ELECT	0.01MF 22MF	10% 20%	50V 16V	R483 R485 R486	1-216-089-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 10K 10K	5% 5% 5%	1/10W 1/10W 1/10W	
C477 C478 C479 C480	1-164-232-11 1-124-478-11 1-126-163-11 1-124-768-11	CERAMIC CHIP BLECT BLECT BLECT	0.01MF 100MF 4.7MF 4.7MF	10% 20% 20% 20%	50V 25V 50V 50V	R488 R494 R495	1-216-295-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 100 100	5% 5% 5%	1/10W 1/10W 1/10W	1

The components identified by shading and mark A are critical for safety
Replace only with part number specified.

Les composants identifies par une trame et une marque A sont critiques pour la securite. Ne les remplacer que par uns piece portant le numero specifie.





							Inna No	Dipm NO	PROGEST DESCON			DEMINA
REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NU.	PART NO.	DESCRIPTION			REMARK
R496 R497	1-216-025-00 1-216-033-00	METAL GLAZE METAL GLAZE	100 220	5% 5%	1/10W 1/10W		C619	1-164-735-11	CAP, CERAMIC	1500PF		
R498 R499	1-216-025-00	METAL GLAZE METAL GLAZE	100 100	5%	1/10W 1/10W		C620 C621	1-136-721-21 1-164-143-11	CERAMIC	1.5MF 0.001MF	10% 10%	400V 1KV
R500	1-216-081-00	METAL GLAZE	22K	5% 5%	1/10W		C622 C623	1-136-853-11 1-137-087-11	FILM	0.56MF 0.068MF	5% 3% 20%	200V 0
R501 R502	1-216-669-11 1-216-033-00	METAL GLAZE	220		1/10W		C624	1-126-771-11	ELECT	100MF		160V 16V
R503 R504 R507	1-216-663-11 1-216-675-11 1-216-295-00	METAL CHIP METAL CHIP METAL GLAZE	3.3K 10K 0	0.50% 0.50% 5%	1/10W 1/10W 1/10W		C625 C626 C628	1-126-183-11 1-126-373-11 1-161-830-00	ELECT ELECT CERANIC	1000MF 470MF 4700PF	20% 20% 10%	10V 500V
R509	1-216-065-00				1/10W		C629 C631	1-124-607-11 1-126-803-11	ELECT ELECT	2200MF 47MF	20% 20%	50V 50V
R510 R512	1-216-061-00 1-216-065-00	METAL GLAZE METAL GLAZE	4.7K 3.3K 4.7K	5% 5%	1/10W 1/10W		C632	1-124-903-11		1MF	20% 5%	50 V
R513 R515	1-216-667-11 1-216-295-00	METAL CHIP METAL GLAZE	4.7K 0	0.50% 5%	1/10W 1/10W		C633	1-130-483-00 1-126-803-11	MYLAR Blect Blex	0.01MF 47MF 8.47MF	20% 20%	50V 16V 125*
R517 R518	1-216-025-00 1-216-089-00	METAL GLAZE METAL GLAZE	100 47K	5% 5%	1/10W 1/10W		C638 &	1-136-311-51	CERAMIC	0.0047#8		460%
R519 R521	1-216-295-00 1-216-061-00	METAL GLAZE METAL GLAZE	0 3.3K	5% 5% 5% 5% 5%	1/10W 1/10W		C643.8	.1-125-642-11 .1-136-311-51	ELECTÉBLOCES FILM	33.47M⊁	20% 20%	200¥ 125¥
R522	1-216-033-00	METAL GLAZE	220		1/10W		0842.8	1-126-101-11 .:-163-783-32	ELECT CERAMIC	100MF 0.0847M9	20%	16V 4008 35V
R523 R524 R525	1-216-033-00 1-216-065-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 4.7K 5.6K 1K	5% 5%	1/10W 1/10W 1/10W		C644	1-126-104-11 1-124-907-11	ELECT	470MF	20%	50V
R526	1-216-049-00	METAL GLAZE METAL CHIP	1K 120K	5% 0.50%	1/10W 1/10W		: Co#7.&	.1-164-486-51	CERAMIC RUECT (BLACK)	3.0033 N F	20% 20%	400V 2000
R528	1-216-691-11	METAL CHIP	47V	0 50%	1/10W		C649 &	. (+ 164-486-5) . (+ 161-749-12	CERAMIC	0.0033#9 0.0047#9	30.X	400¥ 400¥
R529 R531	1-216-097-00 1-216-097-00	METAL GLAZE	100K 100K 100K 100K	5% 5%	1/10W 1/10W		C660	1-102-125-00	CERAMIC	0.0047MF	10% 10%	50V 50V
R532 R533	1-216-097-00 1-216-097-00	METAL GLAZE METAL GLAZE	100K	5%	1/10W 1/10W		C661 C662 C663	1-102-125-00 1-124-910-11 1-126-017-11	CERAMIC ELECT ELECT	0.0047MF 47MF 6800MF	20% 20%	35V 16V
R535 R536	1-216-049-00	METAL GLAZE METAL GLAZE	1K 4.7K	5% 5%	1/10W 1/10W		C664	1-126-017-11	ELECT	6800MF	20%	16V
R537 R538	1-216-067-00 1-218-754-11	METAL GLAZE METAL CHIP	5.6K 120K	5% 0.50%	1/10W 1/10W		C670	1-102-074-00	CERAMIC	0.001MF	10%	50 V
R539	1-216-691-11	METAL CHIP	47K		1/10W			<010	IDE>			
R542 R543 R546	1-216-025-00 1-216-025-00 1-216-682-11	METAL GLAZE METAL GLAZE METAL CHIP	100 100 20K	5% 5% 0.50%	1/10W 1/10W 1/10W		D602 D603	8-719-979-58 8-719-500-67	DIODE EGP10D DIODE D5KC40	H		
R547	1-216-681-11	METAL CHIP	18K	0.50%	1/10W		D604	4-382-854-11 8-719-510-09	SCREW (M3X10 DIODE D10SC6), P, S₩ (+) M		
	<con< td=""><td>NECTOR></td><td></td><td></td><td></td><td></td><td>D.CO.E.</td><td>4-382-854-11</td><td>SCREW (M3X10</td><td></td><td>; D604</td><td></td></con<>	NECTOR>					D.CO.E.	4-382-854-11	SCREW (M3X10		; D604	
Y2-401	1-573-966-11	PIN, CONNECT	OR (PC	BOARD)	36P		D605	8-719-988-31 4-382-854-11 8-719-025-81	SCREW (M3X10 DIODE S3V10S), P, SW (+)	; D605	
*****	******	******	******	*****	*****	*******		8-719-109-85 8-719-109-84	DIODE RD5.1E	SB2		
	*A-1316-149-A	G BOARD, COM					D610	8-719-979-58	DIODE EGP10D			
	<04P	- A C T T () D \					D611 D613	8-719-979-58 8-719-303-57 8-719-979-58	DIODE EGPIOD DIODE RUZAM DIODE EGPIOD			
C601	1-161-830-00	ACITOR> CERAMIC	4700PF		10%	500V	D614 D615	8-719-975-76	DIODE SB140			
C602 C603	1-130-317-00	FILM ELECT	0.068M 1MF	F	5% 20%	100V 250V	D616 D617	8-719-025-81 8-719-110-02	DIODE S3V10S			
C605 C606	1-164-143-11 1-124-563-11	CERAMIC ELECT	0.001M 2200MF	F	10% 20%	1KV 25V	D618 D619	8-719-911-19 8-719-975-76	DIODE 188119 DIODE 88140		star functurary	err i rood nea
C607 C608	1-124-563-11	ELECT ELECT	2200MF 100MF		20% 20%	25V 200V	D621	8-719-908-03	BIODE DIÓSCO DIODE GPO8D) !% &		
C609 C612	1-126-464-11 1-137-141-11 1-124-962-11	FILM ELECT	0.082M 2200MF	IF .	3% 20%	600V 25V	D622 D623	8-719-908-03 8-719-110-63	DIODE GPOSD DIODE RD24ES	SB3		
C614	1-126-326-51	ELECT	10MF		20%	200V	D624 D626	8-719-109-89 8-719-908-03	DIODE RD5.6E DIODE GPO8D			
C615 C616	1-124-798-11 1-124-557-11	ELECT ELECT	1MF 1000MF		20% 20%	160V 25V	D628	8-719-110-49	DIODE RD18ES			
C617 C618	1-164-143-11 1-136-853-11	CERAMIC FILM	0.001M 0.56MF		10% 5%	1KV 200V	D629 D631	8-719-911-19 8-719-911-19				



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Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
D632 8633 &	8-719-511-40 8-719-535-60	DIODE SIVBAO BISBE SEVEN			3-701-754-00 4-382-854-11	PLATE, INSULAT SCREW (M3X10),	ING; Q604 P, SW (+);	Q604	
D634 D636 D638	8-719-911-19 8-719-109-85 8-719-911-19	DIODE ROSSING DIODE ROSSING BIODE ISSIIG		Q607 Q608 Q609	8-729-326-11	TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SA	2611		
8640 & . D650	8-719-510-09 8-719-160-81	830RE B:CSCS# DIODE RD27FB2		Q610 Q611	8-729-820-82 8-729-820-82	TRANSISTOR 2SA TRANSISTOR 2SA	1208-S 1208-S		
20.2002 A	<fusi< td=""><td></td><td>8.558.6.888.0850</td><td>Q612 Q613</td><td>4-382-854-11 8-729-209-15</td><td>TRANSISTOR 25BS SCREW (M3X10), TRANSISTOR 25DS SCREW (M3X10),</td><td>P, SW (+); 2012</td><td>Q612</td><td></td></fusi<>		8.558.6.888.0850	Q612 Q613	4-382-854-11 8-729-209-15	TRANSISTOR 25BS SCREW (M3X10), TRANSISTOR 25DS SCREW (M3X10),	P, SW (+); 2012	Q612	
	1-533-223-11	PUSE: GLASS TUBE 6.34/1258 CLIP, FUSE; F601		Q614	8-729-011-15 4-382-854-11	TRANSISTOR 2SC SCREW (M3X10),	4582NP P, SW (+);		
FB602	<pre><ferf 1-410-397-21<="" pre=""></ferf></pre>	FERRITE BEAD INDUCTOR 1.1UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 1.1UH FERRITE BEAD INDUCTOR 1.1UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 1.1UH FERRITE BEAD INDUCTOR 1.1UH FERRITE BEAD INDUCTOR 1.1UH FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH		Q615 Q616 Q618	8-729-208-39 8-729-119-76	TRANSISTOR 2SA TRANSISTOR 2SA TRANSISTOR 2SA	1306A-Y 1175-HFE		
FB604 FB606 FB607	1-410-396-41 1-410-397-21 1-410-397-21 1-410-396-41	FERRITE BEAD INDUCTOR 0.450H FERRITE BEAD INDUCTOR 1.1UH FERRITE BEAD INDUCTOR 1.1UH FERRITE READ INDUCTOR 0.45UH		Q621 Q621	8-729-119-78	TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SA	2785-HFE		
FB612 FB622	1-410-397-21 1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH FERRITE BEAD INDUCTOR 1.1UH		Q629 Q630	8-729-378-84	TRANSISTOR 2SD TRANSISTOR 2SC	788-5		
FB630 FB631	1-410-396-41 1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH FERRITE BEAD INDUCTOR 0.45UH		[]]	<res< td=""><td>ISTOR></td><td></td><td></td><td></td></res<>	ISTOR>			
G-1	<coni< td=""><td>PERRITE BEAD INDUCTOR 0.450H NECTOR> PIN, CONNECTOR (5MM PITCH) 2P PLUG, CONNECTOR 9P PLUG, CONNECTOR 8P PLUG, CONNECTOR 5P PLUG, CONNECTOR 4P PIN, CONNECTOR (5MM PITCH) 3P PIN, CONNECTOR (5MM PITCH) 2P PLUG, CONNECTOR 8P PLUG, CONNECTOR 8P</td><td></td><td>R604 R605 R606 R609</td><td>1-202-933-11 1-249-428-11 1-214-919-00 1-249-434-11</td><td>FUSIBLE CARBON METAL CARBON METAL</td><td>0.1 10% 8.2K 5% 180K 1% 27K 5%</td><td>1/2W 1/4W 1/2W 1/4W</td><td></td></coni<>	PERRITE BEAD INDUCTOR 0.450H NECTOR> PIN, CONNECTOR (5MM PITCH) 2P PLUG, CONNECTOR 9P PLUG, CONNECTOR 8P PLUG, CONNECTOR 5P PLUG, CONNECTOR 4P PIN, CONNECTOR (5MM PITCH) 3P PIN, CONNECTOR (5MM PITCH) 2P PLUG, CONNECTOR 8P PLUG, CONNECTOR 8P		R604 R605 R606 R609	1-202-933-11 1-249-428-11 1-214-919-00 1-249-434-11	FUSIBLE CARBON METAL CARBON METAL	0.1 10% 8.2K 5% 180K 1% 27K 5%	1/2W 1/4W 1/2W 1/4W	
G-2 G-3 G-4	*1-564-512-11 *1-564-507-11 *1-564-511-51	PLUG, CONNECTUR 9P PLUG, CONNECTUR 4P PLUG, CONNECTUR 8P		R610	1-215-469-00	METAL CARBON	100K 1% 2.2K 5% 680K 20%	1/4W 1/4W 1/2W	
G-5 G-7 G-8	*1-564-507-11 *1-564-507-11	PLUG, CONNECTOR 4P		8613 6 6614	1-202-007-11 1-335-388-91 1-215-439-00	METAL SXIDE CARBON METAL	0.58 5% 1.2K 5% 5.1K 1%	3% 1/4W 1/4W	*
G-9 G-10 G-11	*1-508-765-00 *1-508-786-00 *1-564-511-71	PIN, CONNECTOR (5MM PITCH) 3P PIN, CONNECTOR (5MM PITCH) 2P PLUG, CONNECTOR 8P		R616 8617	1-215-436-00	METAL METAL DEIDE	4.3K 1% 3.9 5% 1.2K 5%	1/4U	¥
G-12	*1-564-505-11	PLUG, CONNECTOR 2P		R619 4 R620	1-249-418-11 1-218-444-91 1-249-418-11	CARBON CARBON	1.2X 52 82X 52 1.2K 5%	1/4₩ !₩ 1/4₩	¥ P
	<1C>			R621 R622	1-247-691-11 1-249-424-11	CARBON CARBON CARBON METAL	18 5% 3.9K 5%	1/4W 1/4W	F F
i C602	8748 321 89 8-759 231-58 4-382-854-11	EC \$\$115* IC TA78125 SCREW (M3X10), P, SW (+); IC602		R623 R624 8625	1-249-417-11 1-214-780-00	CARBON METAL METAL UXIBE	1K 5% 130K 1% 0.56 5%	1/4W 1/4W 38	•
	<jum< td=""><td>PER></td><td></td><td>R627</td><td>1-218-356-91 1-202-883-11</td><td>SOLID</td><td>3.9 5% 680K 20%</td><td>1/2W</td><td>P</td></jum<>	PER>		R627	1-218-356-91 1-202-883-11	SOLID	3.9 5% 680K 20%	1/2W	P
JW76	1-408-421-00	INDUCTOR 100UH		R628 R629 R631	1-249-410-11 1-233-249-11 1-249-417-11	CARBON Wisewound Carbon	270 5% 1 132 1K 5%	1/4W 3₩ 1/4W	F F
	<c01< td=""><td></td><td></td><td>R632 R633</td><td>1-214-913-00 1-249-429-11</td><td>METAL CARBON</td><td>100K 1% 10K 5%</td><td>1/2W 1/4W</td><td></td></c01<>			R632 R633	1-214-913-00 1-249-429-11	METAL CARBON	100K 1% 10K 5%	1/2W 1/4W	
L602 L604 L605	1-459-862-11 1-408-404-00 1-412-526-11	COIL, CHOKE 90UH INDUCTOR 3.9UH INDUCTOR 12UH		R634 R835 R636	1-249-441-11 1-215-897-01 1-260-065-11	CARBON METAL CXIBE CARBON	100K 5% 6.8% 5% 1.2 5%	1/4W 2\$ 1/2W	*
L607 L611	1-408-404-00 1-412-546-41	INDUCTOR 3.9UH INDUCTOR 560UH		R638 R639	1-249-405-11 1-249-405-11	CARBON CARBON	100 5% 100 5% 2.2K 5%	1/4W 1/4W	F F
L612 L613	1-412-540-31 1-412-522-41	INDUCTOR 180UH INDUCTOR 5.6UH		R640 R641 R642	1-249-421-11 1-249-429-11 1-215-421-00	CARBON CARBON METAL	2.2K 5% 10K 5% 1K 1%	1/4W 1/4W 1/4W	F
	<tra< td=""><td>NSISTOR></td><td></td><td>R643 R644</td><td>1-260-123-11 1-249-415-11</td><td>CARBON CARBON</td><td>100K 5% 680 5%</td><td>1/2W 1/4W</td><td></td></tra<>	NSISTOR>		R643 R644	1-260-123-11 1-249-415-11	CARBON CARBON	100K 5% 680 5%	1/2W 1/4W	
Q603 Q604	8-729-011-15 4-382-854-11 8-729-119-80	TRANSISTOR 2SC4582NP SCREW (M3X10), P, SW (+); Q603 TRANSISTOR 2SC2688-LK		R645 R649 R650	1-249-417-11 1-249-424-11 1-249-377-11	CARBON CARBON CARBON	1K 5% 3.9K 5% 0.47 5%	1/4W 1/4W 1/4W	F

The components identified by shading and mark \(\begin{align*} \Delta \) are critical for safety

Replace only with part number specified.

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REF.NO. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
R651 1-215-429-00 ■R652 3. R654 1-215-429-00 R655 1-249-426-11 R656 1-215-454-00	METAL METAL METAL CARBON METAL	2.2K 1% 2.2K 1% 5.6K 5% 24K 1%	1/4W 1/4W 1/4W 1/4W		33731	<pic< td=""><td>TURE TUBE SOCK</td><td></td><td></td></pic<>	TURE TUBE SOCK		
R660 1-249-377-11 R661 1-249-377-11 R661 1-249-377-11 R662 1-249-377-11 R662 1-249-377-11 R663 1-249-377-11 R665 1-249-377-11 R675 1-249-377-11	RETAL CALDE CARBON SOLLD HETAL CALUS CARBON SOLLD METAL CALDS CARBON CARBON CARBON	0.56 52 470 52 8288 288 1.2 52 1008 52 0.47 52 2.28 208 1008 52 0.47 52 0.47 52	144 1/44 1/44 1/44 1/24 24 1/44 1/44	ş	D701 D702 D703 D704 D705 D706 D707	<pre><pre><pre></pre> 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-110-36</pre></pre>	DIODE 188119 DIODE 188119 DIODE 188119 DIODE 188119 DIODE 188119	2	
R687 1-249-417-11 R689 1-247-742-11 R691 1-249-421-11 R694 1-249-421-11 R697 1-249-382-11	CARBON CARBON CARBON CARBON CARBON	1K 5% 180 5% 2.2K 5% 2.2K 5% 1.2 5%	1/4W 1/2W 1/4W 1/4W 1/4W	i j	L701 L702 L703 L704	<001 1-408-429-00 1-408-159-00 1-408-159-00 1-408-413-00	INDUCTOR COIL, SPOOK C	HOKE 3.3UH	
<rel 876618. 1-515-805-11 876628. 1-515-805-11</rel 	RSLAY FORSE					1-519-108-XX 1-519-108-XX	LAMP, NEON		
**************************************	TEANSFORMER. TRANSFORMER.	MEATER LIME FLOTE	¥.		Q701 Q702 Q703	8-729-119-78	NSISTOR> TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S SHEET (TRANSI SCREW (M3XIO)	SC2785-HFE SC2688-LK (STOR), BN; G	1703 - Q 703
7608 <u>A.</u> 1-423-669-11.	TEANSFORMER. TRANSFORMER.				Q704 Q705 Q706	8-729-255-12 8-729-200-17 8-729-200-17	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	SA1091-0	
V08601 A 1-809-786-11							ISTOR>		
******		MPLETE	*****	*****	R701 R702 R703 R704 R705	1-202-847-00 1-202-814-11 1-202-818-00 1-202-842-11 1-202-828-11	SOLID SOLID SOLID SOLID SOLID	560K 20% 33K 20% 1K 20% 220K 20% 6.8K 20%	1/2W 1/2W 1/2W 1/2W 1/2W
	o Latinop.				R706	1-202-561-00	SOLID	330 20%	1/2W
C701 1-162-115-00 C702 1-123-948-00 C703 1-102-050-00	ELECT CERAMIC	330PF 22MF 0.01MF	10% 20%	2KV 250V 500V	R708 R709 R710 :	-216 33 -5 i -249 - 405 - 11 1 -249 - 405 - 11 1 -215 - 327 - 93	METAL CX BE CARBON CARBON METAL CX BE	\$.28 5% 100 5% 100 5% 47% 5%	5# 8 1/4W F 1/4W F
C704 1-162-115-00 C705 1-130-479-00 C706 11-101-006-00	CERAMIC MYLAR CERAMIC	330PF 0.0047MF 0.047MF	10% 5%	2KV 50V 50V	R711 R712 R714 R716	1-249-405-11 1-249-421-11 1-249-401-11 1-249-405-11	CARBON CARBON CARBON CARBON	100 5% 2.2K 5% 47 5% 100 5%	1/4W F 1/4W F 1/4W 1/4W
C707 1-101-006-00 C709 1-124-120-11 C710 1-124-120-11 C711 1-102-114-00	CERAMIC ELECT ELECT CERAMIC	0.047MF 220MF 220MF 470PF	20% 20% 10%	50V 16V 16V 50V	R717 R718 R719	1-249-403-11 1-249-412-11 1-249-410-11	CARBON CARBON CARBON	68 5% 390 5% 270 5% 100 5%	1/4W 1/4W 1/4W
crn	NNECTOR>				R720 R721 R722	1-249-405-11 1-249-409-11 1-215-423-00	CARBON CARBON METAL	100 5% 220 5% 1.2K 1%	1/4W 1/4W 1/4W
CR1 *1-508-784-00 CR3 *1-508-765-00	PIN, CONNECT PIN, CONNECT	OR (5MM PIT	CH) 1P		R723	1-249-410-11 1-215-429-00	CARBON	270 5% 2.2K 1%	1/4W 1/4W
CR4 *1-564-511-11 CR15 *1-564-508-11	PLUG, CONNEC	TOR 8P				4	ARK GAP>		

The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation Should replacement be required, replace only with the value originally used

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REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
					<res< td=""><td>ISTOR></td><td></td><td></td><td></td></res<>	ISTOR>			
SG701 1-519-422-11 SG702 1-519-422-11	GAP, SPARK GAP, SPARK			R731 R732	1-202-847-00 1-202-814-11	SOLID	560K 20% 33K 20%	1/2W 1/2W	
***********	***********	******	******		1-202-818-00 1-202-842-11	SOLID	1K 20% 220K 20%	1/2W 1/2W	
*A-1331-260-A	CG BOARD, COMPLETE			R735	1-202-828-11	SOLID	6.8K 20%	1/2W	
401	Addmon			3737	1-202-561-00	METAL CXIBE		1/2W 5% 1/4W	P
C731 : 1-162-115-00	PACITOR> CERAMIC 330PF	10%	2KV	R739	1-249-405-11 1-249-405-11 1-215-921-91	CARRON	100 5%	1/4W 1/4W	F
C732 1-123-948-00 C733 1-102-050-00	ELECT ZZMF	20%	250V 500V	R741	1-249-405-11	CARBON		1/4W	F
C734 1-162-115-00 C735 1-130-479-00	CERAMIC 330PF	10% 5%	2KV 50V	R744	1-249-421-11	CARBON	100 5% 2.2K 5% 47 5% 27K 1% 100 5%	1/4W 1/4W	F
C736 1-101-006-00 C737 1-101-006-00			50V 50V	R745 R746		METAL CARBON	27K 1% 100 5%	1/4W 1/4W	
C739 1-124-120-11 C740 1-124-120-11	ELECT 220MF	20% 20%	16V 16V	R748	1-249-403-11	CARBON	68 5% 390 5%	1/4W 1/4W	
C741 1-102-114-00,		10%	50V	R750	1-249-410-11 1-249-405-11	CARBON	68 5% 390 5% 270 5% 100 5% 220 5%	1/4W 1/4W	
<00	NNECTOR>			1	1-249-409-11		220 5% 1.2K 1%	1/4W 1/4W	
CG1 *1~508~784~00 CG3 *1~508~765~00	PIN, CONNECTOR (5MM PITO PIN, CONNECTOR (5MM PITO	CH) 1P CH) 3P		R754	1-215-429-00		2.2K 1%	1/4W	
CG16 *1-564-508-11	PLUG, CONNECTOR 5P	,		i	<spa< td=""><td>RK GAP></td><td></td><td></td><td></td></spa<>	RK GAP>			
< 11	CTURE TUBE SOCKET>				1-519-422-11 1-519-422-11				
CRT73181-251-026-11	SOCKET FICTURE TUBE				******	·	*****	******	*****
<di< td=""><td>UDE></td><td></td><td></td><td></td><td>*A-1331-261-A</td><td></td><td></td><td></td><td></td></di<>	UDE>				*A-1331-261-A				
D731 8-719-911-19 D732 8-719-911-19	DIODE 188119 DIODE 188119					********	*****		
D733 8-719-911-19 D734 8-719-911-19	DIODE 1SS119					ACITOR>			
D735 :8-719-911-19	DIODE ISS119			C761 C762	1-162-115-00 1-123-948-00	ELECT	330PF 22MF	10% 20%	2KV 250V
D736 8-719-911-19 D737 8-719-911-19	DIODE 188119 DIODE 188119			C763 C764 C765	1-102-050-00 1-162-115-00 1-130-479-00	CERAMIC	0.01MF 330PF 0.0047MF	10% 5%	500V 2KV 50V
<00	IF>			C766	1-101-006-00	CERAMIC	0.047MF	370	50V
L731 1-408-429-00	INDUCTOR 470UH				1-101-006-00 1-124-120-11	ELECT	0.047MF 220MF	20%	50V 16V
L732 1-408-159-00 L733 1-408-159-00 L734 1-408-413-00	COIL, SPOOK CHOKE 3.3UH COIL, SPOOK CHOKE 3.3UH INDUCTOR 22UH			C770 C771	1-124-120-11 1-102-114-00	CERAMIC	220MF 470PF	20% 10%	16 V 50 V
1 400 415 00	THUOUTON 22011				<con< td=""><td>INECTOR></td><td></td><td></td><td></td></con<>	INECTOR>			
	ON LAMP>			CB1	*1-508-784-00 *1-508-765-00	PIN, CONNECT	OR (5MM PIT	CH) 1P	
NL731 1-519-108-XX NL732 1-519-108-XX	LAMP, NEON			CB4	*1-508-765-00 *1-564-511-11 *1-564-511-11	PLUG, CONNEC	CTOR 8P	Cn) 3r	
<tr< td=""><td>ANSISTOR></td><td></td><td></td><td>CB17</td><td>*1-564-508-11</td><td>PLUG, CONNEC</td><td>CTOR 5P</td><td></td><td></td></tr<>	ANSISTOR>			CB17	*1-564-508-11	PLUG, CONNEC	CTOR 5P		
0731 8-729-119-78 0732 8-729-119-78					<p10< td=""><td>CTURE TUBE SOC</td><td>CKET></td><td></td><td></td></p10<>	CTURE TUBE SOC	CKET>		
9732 8-729-119-78 9733 8-729-119-80 4-373-933-01	TRANSISTOR 2SC2688-LK	0733		CRT761	(8 .1 - 25.1 - C26 - 1.1	STORY, FIG	URF TUBE		
4-382-854-11	SCREW (M3X10), P, SW (+); Q733			<d10< td=""><td>IDE></td><td></td><td></td><td></td></d10<>	IDE>			
9734 8-729-255-12 9735 8-729-200-17	TRANSISTOR 2SA1091-0			D761		DIODE 188119			
Q736 8-729-200-17	TRANSISTOR 2SA1091-0			D762 D763 D764	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 188119 DIODE 188119 DIODE 188119	}		
				1 0104	0 117 711 17	DIODD IDDII.	•		

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK										
D765 D766 D768 D769	8-719-911-19 8-719-911-19 8-719-911-19 8-719-109-81	DIODE ISS119 DIODE ISS119 DIODE ISS119 DIODE ISS119 DIODE RD4, 7ESB2				ACITOR>													
L761	<011 <011	L>		C1502 C1504 C1505	1-102-129-00 1-126-101-11 1-106-383-00 1-124-907-11 1-106-359-00	ELECT Mylar Elect	0.01MF 100MF 0.047MF 10MF 0.0047MF	10% 20% 20% 10%	50V 16V 200V 50V 200V										
L762 L763 L764	1-408-159-00 1-408-159-00 1-408-413-00	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE RD4.7ESB2 L> INDUCTOR 47OUH COIL, SPOOK CHOKE 3.3UH COIL, SPOOK CHOKE 3.3UH INDUCTOR 22UH N LAMP> LAMP, NEON LAMP, NEON NSISTOR> TRANSISTOR 2SC2785-HFE		C1507 C1508 C1509		MYLAR CERAMIC MYLAR	0.01MF 0.001MF 0.01MF 33MF	10% 10% 10% 20%	100V 500V 100V 160V										
	<neo< td=""><td>N LAMP></td><td></td><td>čišii</td><td>1-124-668-11</td><td>ELECT</td><td>2.2MF</td><td>20%</td><td>200V</td></neo<>	N LAMP>		čišii	1-124-668-11	ELECT	2.2MF	20%	200V										
NL761 NL762	1-519-108-XX 1-519-108-XX	LAMP, NEON LAMP, NEON		C1513 C1514 C1515	1-106-391-12 1-162-318-11 1-102-951-00 1-102-959-00 1-102-963-00	CERAMIC CERAMIC	0.1MF 0.001MF 15PF 22PF 33PF	10% 10% 5% 5%	200V 500V 50V 50V 50V										
Q761	072011070	#3131UR/		1			10MF	20%	50V										
Q762 Q763	8-729-119-78 8-729-119-78 8-729-119-80 4-373-933-01 4-382-854-11	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2688-LK SHEET (TRANSISTOR), BN; Q763 SCREW (M3X10), P, SW (+); Q763		C1518 C1519 C1520 C1521	1-125-875-11 1-102-074-00 1-106-359-00 1-126-803-11 1-124-907-11	CERAMIC MYLAR ELECT ELECT	0.001MF 0.0047MF 47MF 10MF	10% 10% 20% 20%	50V 200V 16V 50V										
Q764 Q765 Q766	8-729-255-12 8-729-200-17	TRANSISTOR 2SC2551-0		C1534 C1551 C1552 C1553	1-101-003-00 1-124-122-11 1-124-122-11 1-102-824-00 1-102-824-00	CBRAMIC ELECT ELECT CBRAMIC CBRAMIC	0.0047MF 100MF 100MF 470PF 470PF	20% 20% 5% 5%	50V 50V 50V 50V 50V										
	<res< td=""><td>ISTOR></td><td></td><td>1</td><td>1-130-483-00</td><td></td><td>0.01MF</td><td></td><td>50V</td></res<>	ISTOR>		1	1-130-483-00		0.01MF		50V										
R761 R762 R763 R764 R765	1-202-847-00 1-202-814-11 1-202-818-00 1-202-842-11 1-202-828-11	SOLID 33K 20% 1/2W SOLID 1K 20% 1/2W SOLID 220K 20% 1/2W		C1556 C1557 C1558	1-130-483-00 1-102-824-00 1-102-824-00 1-102-824-00	MYLAR CERAMIC	0.01MF 470PF 470PF 470PF	5% 5% 5% 5%	50V 50V 50V 50V										
R766	1-202-561-00			C1560	1-102-824-00 1-130-483-00 1-130-483-00	CERAMIC MYLAR	470PF 0.01MF	5% 5% 5%	50V 50V										
8767 8768 8769	1-249-405-11 1-249-405-11 1-249-405-11	METAL OXIDE 8.2% 5% 5% CARBON 100 5% 1/4W CARBON 100 5% 1/4W	¥ F ¥	C1562 C1563	1-130-483-00	MYLAK	0.01MF 0.01MF	5% 5%	50V 50V										
R771	1-249-405-11				010>	DE>													
R772 R773 R774 R776	1-249-421-11 1-249-413-11 1-249-401-11 1-249-405-11	CARDUN 41 36 1/4W	F	D1504	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE ISSII													
R777 R778 R779 R780 R781	1-249-403-11 1-249-412-11 1-249-415-11 1-249-405-11 1-249-409-11	CARBON 68 5% 1/4W CARBON 390 5% 1/4W CARBON 680 5% 1/4W CARBON 100 5% 1/4W CARBON 220 5% 1/4W		D1508	8-719-911-19 8-719-110-88 8-719-110-88 8-719-911-19	DIODE RD39ES	5B2 5B2												
R782	1-215-423-00	METAL 1.2K 1% 1/4W			41.00														
R783 R784 R785	1-215-433-00 1-215-429-00 1-215-418-00	METAL 3.3K 1% 1/4W METAL 2.2K 1% 1/4W METAL 750 1% 1/4W		101651	<1C> 8-759-145-58														
COIN	1-213-416-00	NEIAL 190 16 174W		101552	8-759-912-77	IC LM324N													
	<spa< td=""><td>RK GAP></td><td></td><td></td><td><c01< td=""><td>L></td><td></td><td></td><td></td></c01<></td></spa<>	RK GAP>			<c01< td=""><td>L></td><td></td><td></td><td></td></c01<>	L>													
SG761 SG762	1-519-422-11 1-519-422-11	GAP, SPARK GAP, SPARK		L1502	1-408-418-00		56UH												
*****	******	*********	******			varamos:													
	*A-1342-214-A	V BOARD, COMPLETE		Q1501	<tr <="" td=""><td>NSISTOR> TRANSISTOR 2</td><td>2SA1306A-Y</td><td></td><td></td></tr> <tr><td></td><td>*4-395-527-01</td><td>HOLDER (B), TR; Q1501-Q1502</td><td></td><td>Q1502</td><td>8-729-017-06 8-729-119-78</td><td></td><td>2SC4793</td><td></td><td></td></tr>	NSISTOR> TRANSISTOR 2	2SA1306A-Y				*4-395-527-01	HOLDER (B), TR; Q1501-Q1502		Q1502	8-729-017-06 8-729-119-78		2SC4793		
NSISTOR> TRANSISTOR 2	2SA1306A-Y																		
	*4-395-527-01	HOLDER (B), TR; Q1501-Q1502		Q1502	8-729-017-06 8-729-119-78		2SC4793												





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REF.NO.	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
Q1505 Q1506	8-729-119-78 8-729-119-76 8-729-119-78 8-729-119-78 8-729-142-86	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	A1175-HI C2785-HI C2785-HI	FE FE		R1566 R1567 R1568	1-215-445-00 1-215-375-00 1-215-375-00 1-215-375-00 1-215-445-00	THE LATE	10K 1% 12 1% 12 1% 12 1% 12 1% 10K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
Q1555	8-729-202-02 8-729-231-60	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	B1015-Y D1406-Y B1015-Y D1406-Y	GR		R1570 R1571 R1572 R1573	1-215-445-00 1-249-417-11 1-215-445-00 1-215-375-00	METAL CARBON METAL METAL METAL	10K 1% 1K 5% 10K 1% 12 1% 12 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
Q1556		TRANSISTOR 2S	B1015-Y			R1576	1-215-375-00 1-215-445-00	METAL	12 1% 10K 1%	1/4W 1/4W	
R1501	1-249-451-11	SISTOR> CARBON	2.2 560	5% 1/4W		R1578	1-215-445-00 1-249-417-11 1-249-417-11	CARBON	12 1% 10K 1% 10K 1% 1K 5% 1K 5%	1/4W 1/4W 1/4W	
R1502 R1503 R1504	1-249-414-11 1-247-734-11 1-249-384-11 1-249-405-11	CARBON CARBON	39 1.8 100	5% 1/2W 5% 1/4W 5% 1/4W	F	R1581	1-249-417-11 1-249-432-11 1-249-432-11	CARBON	1K 5% 18K 5% 18K 5%	1/4W 1/4W 1/4W	
R1506 R1507 R1508	1-249-419-11 1-249-412-11 1-249-436-11	CARBON	1.5K 390 39K	5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W			<con< td=""><td>NECTOR></td><td></td><td></td><td></td></con<>	NECTOR>			
R1509	1-249-421-11 1-249-436-11	CARBON	2.2K 39K	5% 1/4W 5% 1/4W		V2 V22	*1-564-518-11 1-573-300-11	PLUG, CONNECTOR, B	TOR 3P OARD TO BOAF	RD 18P	
R1514	1-249-418-11 1-249-441-11 1-249-432-11 1-249-405-11 1-249-435-11	CARBON CARBON CARBON	1.2K 100K 18K 100 33K	5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W			************ *A-1346-117-A		PLETE	******	*****
	1-247-713-11	CARBON METAL GXIDE	1 K 688	5% 1/4W 5% 3%	ŗ 8			ACITUR>			
R1520 R1521 R1522	1-249-432-11 1-249-414-11 1-249-384-11	CARBON CARBON CARBON	18K 560 1.8	5% 1/4W 5% 1/4W 5% 1/4W	F	C903 C904	1-126-320-11 1-124-477-11 1-130-471-00 1-130-471-00	BLECT Mylar Mylar	10MF 47MF 0.001MF 0.001MF	20% 20% 5% 5%	16V 16V 50V 50V
R1523 R1524 R1525 R1526 R1527	1-249-400-11 1-249-418-11 1-249-421-11 1-249-426-11 1-249-414-11	CARBON CARBON	560	5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W 5% 1/4W	ļ.	C905 C906 C907 C908 C910	1-124-477-11 1-126-233-11 1-126-101-11 1-124-907-11 1-130-483-00	ELECT ELECT ELECT MYLAR	47MF 22MF 100MF 10MF 0.01MF	20% 20% 20% 20% 5%	16V 50V 16V 50V 50V
R1528 R1529	1-249-429-11 1-249-414-11 * 1-216-451-91	CARBON	10K 560 323	5% 1/4W 5% 1/4W 5% 2*		C911	1-131-341-00 1-124-903-11	TANTALUM	O.1MF IMF	20% 20%	16V 50V
	1-249-429-11 1-249-421-11 1-247-903-00	CARBON CARBON	10K 2.2K	5% 1/4W		C913 C914 C915 C916	1-126-233-11 1-126-803-11 1-124-927-11 1-102-074-00		22MF 47MF 4.7MF 0.001MF	20% 20% 20% 10%	50V 16V 50V 50V
R1534 R1535 R1540 R1541	1-249-423-11 1-249-392-11 1-215-445-00 1-215-445-00	CARBON METAL METAL	8.2 10K 10K	5% 1/4W 1% 1/4W 1% 1/4W	F	C917 C918 C919 C920	1-130-471-00 1-102-963-00 1-102-963-00 1-102-963-00	MYLAR CERAMIC CERAMIC CERAMIC	0.001MF 33PF 33PF 33PF	55% 55% 5%	50V 50V 50V 50V
R1542 R1551 R1552	1-215-445-00 1-215-445-00 1-215-423-00	METAL	10K 10K 1.2K	1% 1/4W 1% 1/4W 1% 1/4W 5% 1/4W		C921	1-102-963-00	CERAMIC CERAMIC CERAMIC	33PF 33PF 33PF	5% 5% 5%	50V 50V 50V
R1553 R1554	1-249-417-11 1-215-445-00	METAL	10K	1% 1/4W		C923 C931 C932	1-102-963-00 1-102-973-00 1-124-903-11	CERAMIC BLECT	100PF 1MF	20%	50V 50V
R1555 R1556 R1557	1-215-375-00 1-215-375-00 1-215-375-00	METAL METAL	12	1% 1/4W 1% 1/4W 1% 1/4W 1% 1/4W		C933	1-124-234-00	ELECT ELECT ELECT	22MF 22MF 22MF	20% 20% 20%	16V 16V 16V
R1558 R1559	1-215-445-00 1-215-445-00	METAL	10K	1% 1/4W		C935 C936 C937 C938	1-124-234-00 1-124-234-00 1-124-234-00	ELECT ELECT ELECT	22MF 22MF 22MF 22MF	20% 20% 20% 20%	16V 16V 16V 16V
R1560 R1561 R1562	1-215-445-00 1-215-423-00 1-215-423-00	METAL METAL	1.2K 1.2K	1% 1/4W 1% 1/4W		C939	1-124-234-00	ELECT	22MF	20% 20% 20%	16 V
R1563 R1564	1-215-445-00 1-249-417-11	METAL CARBON	10K 1K	1% 1/4W 5% 1/4W		C940 C941	1-124-916-11 1-102-123-00	ELECT CERAMIC	22MF 0.0033MF	10%	25V 50V

The components identified by shading and mark A are critical for safety Replace only with part number

une trame et une marque 🐧 sont critiques pour la securite. Ne les remplacer que par une specified piece portant le numero specifie:

Les composants identifies par



REF.NO. PART NO.	DESCRIPTION	 -		REMARK	REF.NO. PART NO. DESCRIPTION	REMARK
C942	CERAMIC BLECT BLECT	0.0033MF 0.0033MF 10MF 10MF	10% 10% 20% 20% 20%	50V 50V 50V 50V 50V	D2 *1-564-511-51 PLUG, CONNECTOR 8P D3 *1-564-512-11 PLUG, CONNECTOR 9P D4 *1-564-508-11 PLUG, CONNECTOR 5P D5 *1-564-511-51 PLUG, CONNECTOR 8P	
C1704 1-123-875-11 C1705 1-102-963-00 C1706 1-102-963-00 C1707 1-102-963-00 C1708 1-102-963-00	ELECT CERAMIC CERAMIC CERAMIC CERAMIC	10MF 33PF 33PF 33PF 33PF	20% 5% 5% 5% 5%	50V 50V 50V 50V 50V	D6 1-691-169-11 PIN, CONNECTOR 12P D7 *1-564-507-11 PLUG, CONNECTOR 4P D8 *1-564-506-11 PLUG, CONNECTOR 3P D9 *1-564-507-11 PLUG, CONNECTOR 4P D14 *1-564-513-11 PLUG, CONNECTOR 10P	
C1709	CERAMIC CERAMIC ELECT ELECT CERAMIC	33PF 33PF 22MF 22MF 0.001MF	5% 5% 20% 20% 10%	50V 50V 50V 25V 50V	<pre></pre>	
C1714 1-124-478-11 C1715 1-124-478-11 C1716 1-126-803-11 C1717 1-126-803-11 C1718 1-102-074-00	ELBCT ELECT ELECT ELECT CERAMIC	100MF 100MF 47MF 47MF 0.001MF	20% 20% 20% 20% 10%	25V 25V 25V 25V 50V	D1703 8-719-900-95 D10DE V09G D1704 8-719-900-95 D10DE V09G D1705 8-719-900-95 D10DE V09G D1706 8-719-900-95 D10DE V09G D1707 8-719-911-19 D10DE ISS119	
C1719 1-124-234-00 C1720 1-130-491-00 C1721 1-130-491-00 C1722 1-130-491-00 C1724 1-124-234-00	MYLAR MYLAR	22MF 0.047MF 0.047MF 0.047MF 22MF	20% 5% 5% 5% 20%	16V 50V 50V 50V 16V	D1708 8-719-911-19 DIODE ISS119 D1709 8-719-911-19 DIODE ISS119 D1710 8-719-911-19 DIODE ISS119 D1711 8-719-911-19 DIODE ISS119 D1712 8-719-911-19 DIODE ISS119	
C1725 1-102-963-00 C1726 1-124-122-11 C1727 1-102-963-00 C1728 1-102-963-00 C1729 1-108-426-91	ELECT CERAMIC CERAMIC MYLAR	33PF 100MF 33PF 33PF 0.027MF	5% 20% 5% 5%	50V 35V 50V 50V 200V	D1713 8-719-911-19 DIODE ISS119 D1714 8-719-911-19 DIODE ISS119 D1715 8-719-911-19 DIODE ISS119 D1716 8-719-911-19 DIODE ISS119 D1717 8-719-911-19 DIODE ISS119	
C1730 1-102-963-00 C1731 1-124-122-11 C1732 1-108-426-91 C1733 1-102-963-00 C1734 1-102-963-00	ELECT	33PF 100MF 0.027MF 33PF 33PF	5% 20% 5% 5%	50V 35V 200V 50V 50V	D1718 8-719-911-19 D10DE 1SS119 D1720 8-719-109-50 D10DE RD2.0ESB1 D1721 8-719-109-50 D10DE RD2.0ESB1 D1722 8-719-109-50 D10DE RD2.0ESB1 D1723 8-719-109-50 D10DE RD2.0ESB1	
C1735 1-124-122-11 C1736 1-108-426-91 C1737 1-124-937-11 C1738 1-124-122-11 C1739 1-136-153-00		100MF 0.027MF 10MF 100MF 0.01MF	20% 20% 20% 5%	35V 200V 16V 35V 50V	<puse></puse>	¥
C1740 1-124-122-11 C1741 1-124-122-11 C1742 1-126-104-11 C1744 1-124-478-11 C1745 1-126-375-11	ELECT ELECT ELECT	100MF 100MF 470MF 100MF 100MF	20% 20% 20% 20% 20% 20%	35V 35V 35V 25V 25V	1 -533-223-11 CLIP. FUSE; F901 2 A 1 53: 745-11 FUSE, GLASS 3UBE 3 154/125 1-533-223-11 CLIP, FUSE; F902 <1C>	¥
C1755 1-106-220-00 C1756 1-106-220-00 C1757 1-106-220-00 C1758 1-106-220-00 C1759 1-106-220-00		0.1MF 0.1MF 0.1MF 0.1MF 0.1MF	10% 10% 10% 10% 10%	100V 100V 100V 100V 100V	IC901	I C905
C1760 1-106-220-00 C1763 1-126-096-11 C1764 1-124-477-11 C1765 1-124-477-11 C1766 1-126-101-11	MYLAR ELECT ELECT ELECT ELECT	0.1MF 10MF 47MF 47MF 100MF	10% 20% 20% 20% 20%	100V 25V 16V 16V 16V	1C906	
C1769 1-126-157-11 C1770 1-130-495-00 C1771 1-126-096-11 C1772 1-126-096-11 C1861 1-102-074-00	ELECT ELECT	10MF 0.1MF 10MF 10MF 0.001MF	20% 5% 20% 20% 10%	16 V 50 V 25 V 25 V 50 V	IC1701 8-759-602-19	
	NNECTOR>	CTAD 70			IC1706 8-759-113-13 IC UPC1498H	
D1 *1-564-510-11	riog, CONNE	CIUR (P			IC1707 8-759-113-13	



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REF.NO.	PART NO.	DESCRIPTION				REMARK		PART NO.	DESCRIPTION				REMARK
IC1708 IC1709	8-759-113-13 8-759-145-58	IC UPC1498H IC UPC4558C						1-215-433-00 1-215-429-00 1-215-441-00	METAL METAL METAL	3.3K 2.2K 6.8K	1%	1/4W 1/4W 1/4W	
101714 101715	8-759-145-58 8-759-145-58	IC UPC4558C IC UPC4558C IC UPC4558C					R942 R943 R944 R945 R946	1-215-451-00 1-215-441-00 1-215-439-00 1-215-445-00 1-215-445-00	METAL METAL METAL METAL METAL		1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
	<c011< td=""><td></td><td>. (1111.01</td><td></td><td></td><td></td><td>R947</td><td>1-215-439-00</td><td>METAL</td><td>5.6K</td><td>1%</td><td>1/4W 1/4W</td><td></td></c011<>		. (1111.01				R947	1-215-439-00	METAL	5.6K	1%	1/4W 1/4W	
L901 L902 L903 L904	1-459-313-00 1-459-313-00	COIL WITH CORI COIL WITH CORI COIL WITH CORI	E (HWC E (HWC E (HWC				R948 R949 R950 R951	1-215-447-00 1-215-439-00 1-215-429-00 1-215-429-00	METAL METAL METAL METAL	12K 5.6K 2.2K 2.2K	1% 1% 1%	1/4W 1/4W 1/4W 1/4W	
	<trai< td=""><td>NSISTOR></td><td></td><td></td><td></td><td></td><td>R953</td><td>1-215-429-00 1-215-439-00</td><td>METAL METAL</td><td>2.2K 5.6K</td><td>1% 1% 1%</td><td>1/4W 1/4W</td><td></td></trai<>	NSISTOR>					R953	1-215-429-00 1-215-439-00	METAL METAL	2.2K 5.6K	1% 1% 1%	1/4W 1/4W	
Q902 Q906	8-729-900-89 8-729-119-78	TRANSISTOR DTO	C2785-	HFE			R954 R955 R956	1-215-439-00 1-215-435-00 1-215-437-00	METAL METAL METAL	5.6K 3.9K 4.7K	1% 1% 1%	1/4W 1/4W 1/4W	
Q907 Q908 Q909	8-729-119-78 8-729-900-89 8-729-119-78	TRANSISTOR 250 TRANSISTOR DTO TRANSISTOR 250	C144ES	HFE HFF			R957 R958	1-215-441-00 1-215-437-00	METAL METAL	6.8K 4.7K	1% 1%	1/4W 1/4W	
Q 910	8-729-119-78	TRANSISTOR 25	C2785-I	HFE			R959	1-215-439-00 1-215-439-00 1-215-439-00	METAL METAL METAL	5.6K 5.6K 5.6K	1% 1% 1%	1/4W 1/4W 1/4W	
0911 0912	8-729-119-76 8-729-119-76	TRANSISTOR 25		HFE			R962	1-215-441-00	METAL	6.8K	1%	1/4W	
	<res< td=""><td>ISTOR></td><td></td><td></td><td></td><td></td><td>R963 R964</td><td>1-215-441-00 1-215-441-00 1-215-869-91</td><td>METAL METAL METAL OXIDE</td><td>6.8K 6.8K</td><td>17 12 53</td><td>1/4W 1/4W 3¥</td><td>8</td></res<>	ISTOR>					R963 R964	1-215-441-00 1-215-441-00 1-215-869-91	METAL METAL METAL OXIDE	6.8K 6.8K	17 12 53	1/4W 1/4W 3¥	8
R901 R902	1-215-463-00 1-215-463-00	METAL METAL	56K	1% 1% 1%	1/4W 1/4W		R966	1 -215 469-00	METAL	100K	5% 1%	1/4W	
R903 R904 R905	1-215-449-00 1-215-455-00 1-215-449-00	METAL METAL METAL	15K 27K 15K	1 % 1 % 1 %	1/4W 1/4W 1/4W		R967 R968 R969	1-215-421-00 1-215-437-00 1 249 421-11	METAL METAL CARBON	1K 4.7K 2.2K	52	1/4W 1/4W 1/4W	
R906 R907	1-215-469-00 1-215-469-00	METAL METAL	100K 100K	1%	1/4W 1/4W		R970	1-215-938-91 1-249-421-11	METAL OXION CARBUN	47 2.2K	5% 5%	3¥ 1/4₩	*
R908 R909	1-215-469-00 1-215-473-00	METAL METAL	100K 150K	1% 1% 1%	1/4W 1/4W		R972 R973	1-249-431-11 1-249-431-11	CARBON CARBON	15K 15K	5% 5%	1/4W 1/4W	
R910 R911	1-215-437-00	METAL	4.7K 22K		1/4W 1/4W		R974 R975 R976	1-215-399-00 1-215-399-00 1-215-399-00	METAL METAL METAL	120 120 120	1% 1% 1%	1/4W 1/4W 1/4W	
R912 R913 R914	1-215-453-00 1-215-437-00 1-215-453-00	METAL METAL METAL	22K 4 7K 22K	1% 1% 1%	1/4W 1/4W 1/4W		R977 R978	1-215-399-00	METAL METAL	120 120	1% 1%	1/4W 1/4W	
R915	1-215-413-00	METAL	470	1%	1/4W		R980	1-215-399-00 1-215-399-00 1-215-399-00	METAL	120 120	1 % 1 %	1/4W 1/4W	
R916 R917 R919	1-215-457-00 1-215-453-00 1-215-399-00	METAL METAL METAL	33K 22K 120	1% 1% 1%	1/4W 1/4W 1/4W		R981 R982	1-215-399-00 1-249-431-11	METAL CARBON	120 15K	1% 5%	1/4W 1/4W	
R920 R921	1-215-399-00 1-215-399-00	METAL METAL	120 120	1% 1%	1/4W 1/4W		R983 R984	1-249-431-11 1-214-804-11	CARBON Metal	15K 3.3 3.3	5% 5% 1% 1%	1/4W 1/2W 1/2W	
R922 R923	1-215-399-00 1-215-441-00	METAL METAL	120 6.8K	1% 1%	1/4W 1/4W		R985 R986	1-214-804-11 1-214-804-11	METAL METAL	3.3	1%	1/2W	
R924 R925 R926	1-215-441-00 1-215-441-00 1-215-463-00	METAL METAL METAL	6.8K 6.8K 56K	1% 1% 1%	1/4W 1/4W 1/4W		R987 R988 R989	1-215-421-00 1-215-421-00 1-215-421-00	METAL METAL METAL	1 K 1 K 1 K	1% 1% 1%	1/4W 1/4W 1/4W	
R927	1-215-463-00	METAL	56K	1%	1/4W		R990 R991	1-215-421-00 1-215-421-00	METAL METAL	ik ik	1 % 1 % 1 %	1/4W 1/4W	
R928 R929 R930	1-215-461-00 1-215-433-00 1-215-433-00	METAL METAL METAL	47K 3.3K 3.3K	1% 1% 1%	1/4W 1/4W 1/4W		R992 R993	1-215-421-00 1-249-429-11	METAL CARBON	1K 10K	1% 5%	1/4W 1/4W	
R931 R932	1-215-433-00 1-215-433-00	METAL	3 3K 3.3K	1% 1%	1/4W 1/4W		R994 R995 R997	1-249-429-11 1-215-457-00 1-215-463-00	CARBON METAL METAL	10K 33K 56K	5% 1% 1%	1/4W 1/4W 1/4W	
R933 R934	1-215-433-00 1-215-433-00	METAL METAL	3.3K 3.3K	1% 1%	1/4W 1/4W		R998	1-215-409-00	METAL	330	1 % 1 %	1/4W	
R935 R936	1-215-439-00 1-215-439-00	METAL METAL	5.6K 5.6K	1% 1%	1/4W 1/4W		R999 R1701 R1702	1-215-455-00 1-249-411-11 1-249-427-11	METAL CARBON CARBON	27K 330 6.8K	1% 5% 5%	1/4W 1/4W 1/4W	
R937 R938	1-215-439-00 1-215-417-00	METAL METAL	5.6K 680	1% 1%	1/4W 1/4W		R1703	1-249-427-11	CARBON	6.8K	5%	1/4W	

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REF.NO. PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R1704 1-249-411-11 R1705 1-249-411-11 R1706 1-249-427-11 R1707 1-249-411-11 R1708 1-249-427-11	CARBON CARBON CARBON	330 5% 1/4 330 5% 1/4 6.8K 5% 1/4 330 5% 1/4 6.8K 5% 1/4	พ พ พ พ	R1768 R1769 R1770 R1771 R1772 R1773	1-249-439-11 1-215-445-00 1-249-405-11 1-249-405-11 1-215-429-00 1-215-429-00	CARBON METAL CARBON CARBON METAL METAL	68K 10K 100 100 2.2K 2.2K	5% 1% 5% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/4W 1/4W
R1710 1-249-411-11 R1711 1-249-411-11 R1712 1-249-427-11 82713*1-235-888-31 R1714 1-249-411-11 R1715 1-249-411-11	CARBON CARBON	6.8K 5% 1/4 330 5% 1/4 330 5% 1/4 6.8K 5% 1/4 108 5% 2* 330 5% 1/4 330 5% 1/4			1-249-439-11 1-215-445-00 1-249-405-11 1-249-405-11 1-215-429-00 1-215-429-00 1-215-421-00 1-249-429-11 1-215-421-00 1-249-423-11 1-215-421-00	METAL CARBON METAL CARBON METAL	1K 10K 1K 3.3K 1K	1% 5% 1% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
83.716.* i = 215.888.* 93. R1717	METAL SXIDE CARBON CARBON METAL	1000 67 76	W W	R:779 R1780 R1781 R:782	1-215-898-9; 1-214-804-11 1-214-804-11 1-215-298-93 1-214-804-11	METAL METAL METAL METAL GXIDE METAL	3.3 3.3 10% 3.3	5% 1% 1% 5% 1%	2# F 1/2W 1/2W 2# F 1/2W
R1720 1-249-411-11 R1721 1-249-417-11 R1722 1-249-411-11 R1723 1-249-417-11	CARBON CARBON CARBON CARBON	1 1% 1/2 330 5% 1/4 1K 5% 1/4 330 5% 1/4	W W W	R1784 R2785 R1786 R1787	1-214-804-11 1-214-804-11 3-25-398-93 1-214-804-11 1-214-804-11 1-214-804-11 1-214-804-11 1-214-804-11 1-249-433-11	METAL MEXXX EXIDE METAL METAL CARBON	3.3 10% 3.3 3.3 22K	1% 5% 1% 1% 5%	1/2W 2# F 1/2W 1/2W 1/4W
# 72# -235-886-8 # 726 -215-886-3 # 726 -215-886-3 # 1727 1-214-792-00 # 1728 1-214-792-00	METAL EXIDE METAL METAL METAL	100 53 28 100 53 28 1 17 1/2 1 17 1/2	i i i i i i i i i i i i i i i i i i i	R1789 R1790 R1791 R1792	1-249-441-11 1-249-433-11 1-249-429-11 1-215-445-00	CARBON CARBON CARBON METAL	100K 22K 10K 10K	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W
R1729 1-214-792-00 R1730 1-249-405-11 R1731 1-249-417-11 R1732 1-249-405-11 R1733 1-249-405-11	METAL CARBON CARBON CARBON CARBON	1K 5% 1/4 100 5% 1/4 100 5% 1/4	[W W W	R1793 R1794 R1795 R1796 R1797	1-249-405-11 1-215-429-00 1-249-433-11 1-249-405-11 1-249-429-11	METAL CARBON CARBON	100 2.2K 22K 100 10K 3.3K	1% 5%	1/4W 1/4W 1/4W 1/4W 1/4W
R1734 1-249-405-11 R1735 1-249-405-11 R1736 1-249-423-11 R1737 1-249-423-11 R1738 1-249-423-11		3.3K 5% 1/4 3.3K 5% 1/4 3.3K 5% 1/4	W W W	R1800 R1801 R1802	1-249-423-11 1-249-405-11 1-215-439-00 1-215-439-00	CARBON CARBON METAL METAL	3.3K 100 5.6K 5.6K 5.6K		1/4W 1/4W 1/4W 1/4W 1/4W
R1739 1-249-423-11 R1740 1-249-417-11 R1741 1-249-423-11 R1742 1-249-423-11 R1743 1-249-417-11		3.3K 5% 1/4 1K 5% 1/4 3.3K 5% 1/4 3.3K 5% 1/4 1K 5% 1/4	im im im im	R1805 R1806 R1807 R1808		METAL CARBON CARBON METAL METAL	5.6K	1%	1/4W 1/4W 1/4W 1/2W 1/2W
R1744 1-249-411-11 R1745 1-249-405-11 R1746 1-214-792-00 81747 1 215-868-3 R1748 1-215-421-00	CARBON CARBON METAL METAL BX 188 METAL	330 5% 1/4 100 5% 1/4 1 1% 1/3 18 5% 28 18 1% 1/4	t₩ t₩ 2₩ #	R1810 R1811 R1812 R1813 R1814	1-214-792-00 1-214-792-00 1-214-792-00 1-214-792-00 1-249-431-11	METAL METAL METAL METAL CARBON		1%	1/2W 1/2W 1/2W 1/2W 1/4W
R1749 1-215-421-00 R1750 1-215-421-00 R1751 1-215-421-00 R1752 1-215-421-00 R1753 1-215-421-00	METAL METAL METAL METAL METAL	1K 1% 1/1 1K 1% 1/2 1K 1% 1/1 1K 1% 1/1	1W 4W 1W	R1815 R1816 R1817 R1818 R1819	1-247-885-00 1-249-431-11 1-247-885-00 1-249-405-11 1-215-437-00	CARBON CARBON CARBON CARBON METAL	180K 15K 180K 100 4.7K	5% 5% 5% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
R1754 1-214-792-00 R1755 1-215-469-00 R1756 1-215-437-00 R1757 1-215-437-00 R1758 1-215-437-00	METAL METAL METAL METAL METAL	1 1% 1/. 100K 1% 1/. 4.7K 1% 1/. 4.7K 1% 1/. 4.7K 1% 1/.	4W 4W 4W	R1820 R1821 R1822 R1823 R1824	1-215-437-00 1-215-437-00 1-215-445-00 1-215-445-00 1-215-433-00	METAL METAL METAL METAL METAL	4.7K 4.7K 10K 10K 3.3K	1 % 1 %	1/4W 1/4W 1/4W 1/4W 1/4W
R1759 1-249-405-11 R1760 1-249-427-11 R1761 1-249-419-11 R1762 1-215-445-00 R1763 1-249-427-11	CARBON CARBON CARBON METAL CARBON	100 5% 1/ 6.8K 5% 1/ 1.5K 5% 1/ 10K 1% 1/ 6.8K 5% 1/	4W 4W 4W	R1825 R1826 R1827 R1828 R1829	1-215-433-00 1-215-433-00 1-215-445-00 1-215-445-00 1-249-434-11	METAL METAL METAL METAL CARBON	3.3K 3.3K 10K 10K 27K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W
R1764 1-249-419-11 R1765 1-249-419-11 R1766 1-249-427-11 R1767 1-249-427-11	CARBON CARBON CARBON CARBON	1.5K 5% 1/ 1.5K 5% 1/ 6.8K 5% 1/ 6.8K 5% 1/	4W 4W	R1830		CARBON CARBON	27K 100 120K	5%	1/4W 1/4W 1/4W



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R1834 R1835 R1836	1-215-471-00 1-215-471-00 1-215-437-00 1-215-437-00 1-215-421-00	METAL METAL METAL METAL METAL	120K 120K 4.7K 4.7K 1K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		R1924 R1925 R1926 R1927 R1928	1-215-429-00 1-215-429-00 1-215-429-00 1-215-445-00 1-215-421-00	METAL METAL METAL METAL METAL	2.2K 1% 2.2K 1% 2.2K 1% 10K 1% 1K 1% 10K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1839 R1858 R1859	1-249-431-11 1-249-431-11 1-215-445-00 1-215-445-00 1-215-397-00	CARBON CARBON METAL METAL METAL	15K 15K 10K 10K 100	5% 5% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		R1929 R1930 R1931 R1932 R1933	1-215-429-00 1-215-429-00 1-215-445-00 1-215-445-00 1-215-445-00 1-215-397-00 1-215-453-00 1-215-453-00 1-215-453-00 1-215-429-00 1-215-445-00	METAL METAL METAL METAL METAL	10K 1% 100 1% 100 1% 22K 1% 22K 1% 2.2K 1%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1862 R1863	1-215-453-00 1-215-453-00 1-215-397-00 1-215-437-00 1-215-453-00	METAL METAL METAL METAL METAL	22K 22K 100 4.7K 22K	1% 1% 1% 1% 1%	1/4W		;			10K 1%	1/4W 1/4W	
R1866 R1867 R1868 R1869 R1870	1-215-453-00 1-215-437-00 1-215-439-00 1-215-445-00 1-215-445-00	METAL METAL METAL METAL METAL	22K 4.7K 5.6K 10K 10K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		RV901 RV902 RV903 RV904	1-241-631-11 1-241-631-11 1-241-631-11	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR	BON 22K BON 22K BON 22K		
R1872 R1873 R1874	1-215-445-00 1-215-437-00 1-215-437-00 1-215-437-00 1-215-437-00	METAL METAL METAL METAL METAL	10K 4.7K 4.7K 4.7K 4.7K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		RV906 RV907 RV908 RV909	1-241-631-11 1-241-631-11 1-241-631-11 1-241-631-11	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR	BON 22K BON 22K BON 22K BON 22K BON 22K		
R1877 R1878	1-215-437-00 1-215-437-00 1-215-475-00 1-215-475-00 1-215-475-00	METAL METAL METAL METAL METAL	4.7K 4.7K 180K 180K 180K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		RV910 RV911 RV912 RV913 RV914	1-241-631-11 1-241-631-11 1-238-023-11 1-241-630-11	RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR RES, ADJ, CAR	BON 1K BON 22K BON 470K BON 10K		
R1882 R1883 R1884	1-215-461-00 1-215-445-00 1-215-453-00 1-215-397-00 1-215-445-00	METAL METAL METAL METAL METAL	10K 22K	1 % 1 % 1 % 1 %	1/4W 1/4W 1/4W 1/4W 1/4W		RV916 RV917 RV918 RV919	1-241-631-11 1-241-631-11 1-241-631-11 1-241-631-11 1-241-631-11	RES, ADJ, CAR	BON 22K BON 22K BON 22K BON 22K BON 22K		
R1887 R1888 R1889	1-215-445-00 1-215-397-00 1-215-461-00 1-215-457-00 1-215-457-00	METAL METAL METAL METAL METAL	100 47K 33K 33K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		RV921 RV922 RV923 RV924 RV925	1-241-631-11 1-241-631-11 1-241-631-11 1-241-631-11 1-241-631-11	RES. ADJ, CAF RES, ADJ, CAF	RBON 22K RBON 22K RBON 22K RBON 22K RBON 22K		
R1892 R1894	1-215-443-00 1-215-445-00 1-215-429-00 1-215-445-00 1-215-445-00	METAL METAL METAL METAL METAL	8.2K 10K 2.2K 10K 10K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		RV926 RV927 RV928 RV929 RV930	1-241-631-11 1-241-631-11 1-241-630-11 1-241-631-11 1-241-630-11	RES, ADJ, CAF RES, ADJ, CAF RES, ADJ, CAF RES, ADJ, CAF RES, ADJ, CAF			
R1897 R1898 R1899 R1900 R1901	1-215-449-00 1-215-445-00 1-215-421-00 1-215-429-00 1-215-449-00	METAL METAL METAL METAL METAL	15K 10K 1K 2.2K 15K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		RV931 RV932 RV933 RV934 RV935	1-241-631-11 1-241-631-11 1-241-631-11 1-241-631-11 1-241-631-11	RES, ADJ, CAI RES, ADJ, CAI RES, ADJ, CAI RES, ADJ, CAI RES, ADJ, CAI	RBON 22K RBON 22K RBON 22K RBON 22K		
R1902 R1903 R1904 R1905 R1906	1-215-445-00 1-215-445-00 1-215-445-00 1-215-445-00 1-215-429-00	METAL METAL METAL METAL METAL	10K 10K 10K 10K 2.2K	1% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		RV936 RV937 RV938 RV939 RV940	1-241-631-11 1-241-630-11 1-241-630-11 1-241-630-11 1-241-631-11	RES, ADJ, CA RES, ADJ, CA RES, ADJ, CA RES, ADJ, CA RES, ADJ, CA	RBON 22K RBON 10K RBON 10K RBON 10K		
R1907 R1908 R1909 R1910 R1911	1-215-445-00 1-215-445-00 1-215-445-00 1-215-445-00 1-215-453-00	METAL METAL METAL METAL METAL	10K 10K 10K 10K 22K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		RV941 RV942 RV943 RV944 RV945	1-241-631-11 1-241-631-11 1-241-631-11 1-241-631-11	RES, ADJ, CA RES, ADJ, CA RES, ADJ, CA RES, ADJ, CA RES, ADJ, CA	RBON 22K RBON 22K RBON 22K RBON 22K		
R1916 R1920 R1921 R1922	1-215-423-00 1-215-453-00 1-215-445-00 1-215-445-00	METAL METAL METAL METAL	1.2K 22K 10K 10K	1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W		RV946 RV947 RV948	1-241-631-11 1-241-631-11	RES, ADJ, CA	RBON 22K RBON 22K		







	DN SSG	DART NO	DESCRIPTIO	N.		REMARK	!RER NO.	PART NO.	DESCRIPTION		<u> </u>	REMARK
Page 1-24 631-11 RES. AD. CARRON 22K RISAS 1-215-421-00 MSTAL EX IZ I/4W							 		****	COV 19	1 /46	
## 15 1-215-65-10 MTTAL 27% 12	RV950	1-241-631-11	RES, ADJ, C	CARBON 22K			R1843	1-215-421-00	METAL	1K · 1%	1/4W	
### 1-241-631-11 RES, ADJ. CARBON 22X ### 1-241-631-11 RES, ADJ. CARBO	RV952	1-241-631-11	RES, ADJ, C	CARBON 22K						27K 1%		
RY956 -241-631-11 RES, ADJ. CARBON 22X R1863 -215-397-10 METAL. 100 12 1/44 R1965 1-241-631-11 RES, ADJ. CARBON 22X R1863 -215-429-00 METAL. 100 12 1/44 R1965 1-241-631-11 RES, ADJ. CARBON 22X R1964 1-241-631-11 RES, ADJ. CARBON 22X R1965 1-241-631-11 RES, ADJ. CARBON 22X R1965 1-241-631-11 RES, ADJ. CARBON 22X R1965 1-241-631-11 RES, ADJ. CARBON 22X R1966 1-241-6	RV956	1-241-631-11	RES, ADJ, C	CARBON 22K			R1850 R1851	1-215-461-00 1-215-461-00	METAL METAL	47K 1% 47K 1%	1/4W 1/4W	
RY960 1-241-630-11 RES. ADJ. CARBON 10K R1850 1-215-397-00 METAL 100 13 1/44 RY962 1-241-631-11 RES. ADJ. CARBON 22K R1940 1-215-435-00 METAL 101 13 1/44 RY963 1-246-31-11 RES. ADJ. CARBON 22K R1940 1-215-435-00 METAL 101 13 1/44 RY964 1-241-631-11 RES. ADJ. CARBON 22K R1941 1-215-435-00 METAL 13 1/44 RY966 1-241-631-11 RES. ADJ. CARBON 22K R1942 1-215-435-00 METAL 13 1/44 RY966 1-241-631-11 RES. ADJ. CARBON 22K R1942 1-215-435-00 METAL 13 1/44 RY966 1-241-631-11 RES. ADJ. CARBON 22K R1943 1-215-455-00 METAL 27K 17 1/44 RY968 1-241-631-11 RES. ADJ. CARBON 22K R1945 1-215-455-00 METAL 27K 17 1/44 RY969 1-241-631-11 RES. ADJ. CARBON 22K R1946 1-215-455-00 METAL 27K 17 1/44 RY970 1-241-631-11 RES. ADJ. CARBON 22K RY971 1-241-631-11 RES. ADJ. CARBON 22K RY973 1-241-631-11 RES. ADJ. CARBON 22K RY982 1-241-631-11 RES. ADJ. CARBON 22K RY992 1-241-631-11 RES. ADJ. CARBON 22K RY993 RY99	RV958	1-241-631-11	RES, ADJ, C	CARBON 22K			R1853	1-215-397-00	METAL	100 1%	1/4W	
RY964 1-241-631-11 RSS, ADJ, CARBON 22K RY965 1-241-631-11 RSS, ADJ, CARBON 22K RY967 1-241-631-11 RSS, ADJ, CARBON 22K RY969 1-241-631-11 RSS, ADJ, CARBON 22K RY977 1-241-631-11 RSS, ADJ, CARBON 22K RY979 1-241-631-11 RSS, ADJ, CARBON 22K RY990 1-238-019-11 RSS, ADJ, CARBON 22K RY990 1-234-631-11 RSS, ADJ, CARBON 12K RY990 1-234-631-11 RSS, ADJ, CARBON 12K RY990 1-234-631-11 RSS, ADJ, CARBON 10K RY990 1-234-631-11 RSS, ADJ, CARBON 22K RY990 1-234-631-11 RSS, ADJ, CARBON 10K RY990		1-241-631-11	RES. ADJ. C	CARBON 22K			R1855	1-215-397-00 1-215-445-00	METAL METAL	100 1%	1/4W 1/4W	
RY970 -241-631-11 RES, ADJ, CARBON 22K RY971 -241-631-11 RES, ADJ, CARBON 22K RY971 -241-631-11 RES, ADJ, CARBON 22K RY971 -241-631-11 RES, ADJ, CARBON 22K RY973 -241-631-11 RES, ADJ, CARBON 22K RY977 -241-631-11 RES, ADJ, CARBON 22K RY977 -241-631-11 RES, ADJ, CARBON 22K RY978 -241-631-11 RES, ADJ, CARBON 22K RY979 -241-631-11 RES, ADJ, CARBON 22K RY998 -238-019-11 RES, ADJ, CARBON 22K RY998 -238-019-11 RES, ADJ, CARBON 22K RY998 -234-631-11	RV963	1-241-631-11	RES, ADJ, C	CARBON 22K							1/4W	
RY970 -241-631-11 RES, ADJ, CARBON 22K RY971 -241-631-11 RES, ADJ, CARBON 22K RY971 -241-631-11 RES, ADJ, CARBON 22K RY971 -241-631-11 RES, ADJ, CARBON 22K RY973 -241-631-11 RES, ADJ, CARBON 22K RY977 -241-631-11 RES, ADJ, CARBON 22K RY977 -241-631-11 RES, ADJ, CARBON 22K RY978 -241-631-11 RES, ADJ, CARBON 22K RY979 -241-631-11 RES, ADJ, CARBON 22K RY998 -238-019-11 RES, ADJ, CARBON 22K RY998 -238-019-11 RES, ADJ, CARBON 22K RY998 -234-631-11	RV965	1-241-631-11	RES. ADJ. (CARBON 22K			R1944	1-215-465-00 1-215-421-00	METAL	68K 1% 1K 1% 27K 1%	1/4W	
RV970	RV967 RV968	1-241-631-11	RES, ADJ, (RES. ADJ. (CARBON 22K CARBON 22K				1-215-455-00		27K 1%		
RY972 1-241-631-11 RES, ADJ, CARBON 22X RY974 1-241-631-11 RES, ADJ, CARBON 22X RY977 1-241-631-11 RES, ADJ, CARBON 22X RY979 1-241-631-11 RES, ADJ, CARBON 22X RY979 1-241-631-11 RES, ADJ, CARBON 22X RY980 1-238-019-11 RES, ADJ, CARBON 22X RY981 1-241-631-11 RES, ADJ, CARBON 22X RY982 1-241-631-11 RES, ADJ, CARBON 20X RY982 1-241-631-11 RES, ADJ, CARBON 22X RY982 1-241-631-11 RES, ADJ, CARBON 30 52 1/4W RY981 1-241-631-11 RES, ADJ, CARBON 30 52 1/4W RY982 1-241-631-11 RES, ADJ, CARBON 30 52 1/4W RY981 1-241-631-11 RES, ADJ, CARBON 30 52		1-241-631-11	RES, ADJ, (CARBON 22K								
RV974 1-241-631-11 RES, ADJ CARBON 22K	RV972	1-241-631-11	RES, ADJ, (CARBON 22K			RV984	1-241-630-11	RES, ADJ, CAR	RBON 10K		
CAPACITOR> CAPACITOR CAPACITOR CAPACITOR CAPACITOR	RV974	1-241-631-11	RES, ADJ, (CARBON 22K			į.			*********	******	******
CAPACITOR> CAPACITOR CAPACITOR CAPACITOR CAPACITOR	RV976 RV977	1-241-631-11 1-241-631-11	RES, ADJ, O	CARBON 22K CARBON 22K					******			
CAPACITOR> CAPACITOR CAPACITOR CAPACITOR CAPACITOR	RV979	1-241-631-11	RES, ADJ, O	CARBON 22K				*4-374-987-01	GUIDE, LIGHT	LIGHT GUIDE	3	
1-644-278-11 DS BOARD ******** ********* ********* ****	RV981	1-241-631-11	RES, ADJ, (CARBON 22K				<cap< td=""><td>ACITOR></td><td></td><td></td><td></td></cap<>	ACITOR>			
C1745 1-126-101-11 BLECT 100MF 20% 16V C1746 1-126-101-11 BLECT 100MF 20% 16V C1747 1-126-101-11 BLECT 100MF 20% 16V C1748 1-126-101-11 BLECT 100MF 20% 16V C1750 1-124-916-11 BLECT 100MF 20% 16V C1750 1-124-916-11 BLECT 22MF 20% 25V C1750 1-124-916-11 BLECT 22MF 20% 20% 20% 20% 20% 20% 20% 20% 20% 20%	*****	******	********	*******	******	******	C1602	1-124-907-11	ELECT		20%	50 V
C1745 1-126-101-11 ELECT 100MF 20% 16V C1746 1-126-101-11 ELECT 100MF 20% 16V C1747 1-126-101-11 ELECT 100MF 20% 16V C1748 1-126-101-11 ELECT 100MF 20% 16V C1750 1-124-916-11 ELECT 100MF 20% 16V C1750 1-124-916-11 ELECT 22MF 20% 25V C1751 1-126-101-11 ELECT 22MF 20% 25V C1752 1-124-916-11 ELECT 22MF 20% 25V C1753 1-124-916-11 ELECT 22MF 20% 25V C1851 1-102-074-00 CERAMIC 0.001MF 10% 50V C1851 1-102-074-00 CERAMIC 0.001MF 10% 50V C1C> CCONNECTOR> C1C		*1-644-278-11					C1603 C1604	1-124-907-11 1-124-261-00	ELECT ELECT			
C1746		<cap< td=""><td>ACITOR></td><td></td><td></td><td></td><td></td><td><010</td><td>IDE></td><td></td><td></td><td></td></cap<>	ACITOR>					<010	IDE>			
C1748	C1746	1-126-101-11	ELECT	100MF	20%	16V						
C1752 1-124-916-11 ELECT 22MF 20% 25V C1753 1-124-916-11 ELECT 22MF 20% 25V C1851 1-102-074-00 CERAMIC 0.001MF 10% 50V CIC> CONNECTOR CIC> CONNECTOR CONNECTOR CONNECTOR CONNECTOR CIC CIC	C1748	1-126-101-11	ELECT	100MF	20%	16V		<c01< td=""><td>INECTOR></td><td></td><td></td><td></td></c01<>	INECTOR>			
C1753 1-124-916-11 BLECT 22MF 20% 25V C1851 1-102-074-00 CERAMIC 0.001MF 10% 50V CIC> CCONNECTOR> CCONNECTOR> C1C> CCONNECTOR C1C> C1CONNECTOR (BOARD TO BOARD) 12P C1C> C1CONNECTOR (BOARD TO BOARD) 12P C1C> C1C> C1C> C1C> C1C> C1CONNECTOR (BOARD TO BOARD) 12P C1C> C1C> C1C> C1C> C1C> C1CONNECTOR (BOARD TO BOARD) 12P C1CONNECTOR (BOARD TO BOARD) 12P C1C> C1CONNECTOR (BOARD TO BOARD) 12P C1C> C1CONNECTOR (BOARD TO BOARD) 12P C1C> C1CONNECTOR (BOARD TO BOARD) 12P C1CONNECTOR (BOARD TO BOARD) 12P C1C> C1CS C	C1751 C1752	1-126-101-11 1-124-916-11			20%			*1-564-526-11 *1-564-517-11	PLUG, CONNEC' PLUG, CONNEC'	TOR 11P TOR 2P		
CONNECTOR> IC1601 8-741-148-33 IC SBX1483-59 C1601 8-741-148-33 IC SBX1483-59	C1753	1-124-916-11	ELECT	22MF	20%	25V 50V		<100	>			
CIC>		<con< td=""><td>INECTOR></td><td></td><td></td><td></td><td>IC160</td><td></td><td></td><td>9</td><td></td><td></td></con<>	INECTOR>				IC160			9		
R1604 1-249-419-11 CARBON 1.5K 5% 1/4W R1607 1-249-405-11 CARBON 1.00 5% 1/4W R1608 1-249-405-11 CARBON 1.00 5% 1/4W R1608 1-249-411-11 CARBON 330 5% 1/4W R1609 1-249-411-11 CARBON 1-249-411	DS6	1-691-182-11	CONNECTOR	(BOARD TO	BOARD) 12P			<res< td=""><td>SISTOR></td><td></td><td></td><td></td></res<>	SISTOR>			
R1604 1-249-419-11 CARBON 1.5K 5% 1/4W 1/2113 8-759-111-69 IC UPC1037HA R1606 1-249-405-11 CARBON 100 5% 1/4W 1/249-405-11 CARBON 100 5% 1/4W 1/249-405-11 CARBON 1/4W 1/249-405-11 1/249-40							R1602	1-249-425-11	CARBON	12K 5% 4.7K 5%	1/4W	
R1607 1-249-405-11 CARBON 100 5% 1/4W <resistor> R1608 1-249-411-11 CARBON 330 5% 1/4W R1609 1-249-411-11 CARBON 330 5% 1/4W</resistor>	IC1712	8-759-602-19	IC M5220L				R1604	1-249-419-11	CARBON	1.5K 5%	1/4W	
R1609 1-249-411-11 CARBON 330 5% 1/4W							R1607	1-249-405-11	CARBON	100 5% 330 5%		
R1840 1-215-445-00 METAL 10K 1% 1/4W 1 R1841 1-215-433-00 METAL 3.3K 1% 1/4W		1-215-445-00	METAL	10K	1% 1/4W					330 5%		

H₁ H₂ Z_R Z_G Z_B

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REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO. PAR	T NO.	DESCRIPTION	I		REMARK
<pre><swi 1-554-303-21="" 1-554-303-21<="" pre="" s1601="" s1602="" s1603="" s1604="" s1605=""></swi></pre>	TCH> SWITCH, TACTIL SWITCH, TACTIL SWITCH, TACTIL SWITCH, TACTIL SWITCH, TACTIL		RY1652 1-5	15-586-11 <swi< td=""><td>RBLAY (DS-2) RBLAY (DS-2) TCH> SWITCH, TACT</td><td></td><td></td><td></td></swi<>	RBLAY (DS-2) RBLAY (DS-2) TCH> SWITCH, TACT			
\$16064. 1 \$71 731 21 ***********************************	********	*******	\$1652 1-5 \$1653 1-5 \$1654 1-5 \$1655 1-5	54-303-21 54-303-21 54-303-21 54-303-21	SWITCH, TACT SWITCH, TACT SWITCH, TACT SWITCH, TACT	`IL 'IL 'IL 'IL ********	*****	*****
<caf< td=""><td>PACITOR></td><td></td><td>*A-I</td><td>390-340-A</td><td>ZR BOARD, CO</td><td></td><td></td><td></td></caf<>	PACITOR>		*A-I	390-340-A	ZR BOARD, CO			
C1651 1-124-477-11 C1655 1-124-927-11		20% 16V 20% 50V		<cap 62-115-00</cap 	ACITOR>	330PF	10%	2KV
<010	DDE>			62-115-00		330PF	10%	ŽKV
D1651 8-719-908-03 D1652 8-719-908-03 D1653 8-719-108-12 D1654 8-719-108-12 D1655 8-719-108-12	DIODE GPO8D DIODE GPO8D DIODE RD9.1EW DIODE RD9.1EW DIODE RD9.1EW		R1902 1-2 R1903 1-2	202-818-00 202-818-00 249-414-11	SOLID CARBON	1K 20 1K 20 560 5% 560 5%	% 1/2W	
D1659 8-719-911-19 D1660 8-719-110-88 D1661 8-719-110-88 D1662 8-719-110-88 D1663 8-719-110-88	DIODE 1SS119 DIODE RD39ESB2 DIODE RD39ESB2 DIODE RD39ESB2 DIODE RD39ESB2		ZR2 *1-5	564-518-11	NECTOR>	CTOR 3P		
<001	NNECTOR>		ZR18 *1-6	64-522-11	PIN, CONNECT PLUG, CONNEC	CTOR 7P	KU) 3P	
H22 *1-564-519-11 H25 *1-564-517-11	PLUG, CONNECTOR 4P PLUG, CONNECTOR 2P		*******	*******	*********	********	******	******
H26 *1-564-519-11 H28 *1-564-518-11 H211 *1-564-517-11	PLUG, CONNECTOR 4P PLUG, CONNECTOR 3P PLUG, CONNECTOR 2P		*A-1	390-346-A	ZG BOARD, CG			
H216 *1-564-525-11 H225 *1-564-518-11	PLUG, CONNECTOR 10P PLUG, CONNECTOR 3P				ACITOR>			
<ja< td=""><td>CK></td><td></td><td></td><td>162-115-00 162-115-00</td><td></td><td>330PF 330PF</td><td>10% 10%</td><td>2KV . 2KV</td></ja<>	CK>			162-115-00 162-115-00		330PF 330PF	10% 10%	2KV . 2KV
J1651 1-695-817-11	JACK BLOCK, PIN 3P				ISTOR>			
<tr. 8-729-119-78="" 8-729-119-78<="" q1651="" q1652="" q1653="" td=""><td>ANSISTOR> TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE</td><td></td><td>R1912 1-2</td><td>202-818-00 202-818-00 249-414-11 249-414-11</td><td>SOLID Carbon</td><td>1K 20 1K 20 560 5% 560 5%</td><td>% 1/2W</td><td></td></tr.>	ANSISTOR> TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE		R1912 1-2	202-818-00 202-818-00 249-414-11 249-414-11	SOLID Carbon	1K 20 1K 20 560 5% 560 5%	% 1/2W	
41035 0 125 115 10	TWIND TO TOTAL BOOKING THE				NECTOR>			
	SISTOR>	1 /451			PIN, CONNEC PLUG, CONNE		RD) 3P	
R1651 1-249-419-11 R1652 1-249-421-11 R1653 1-249-425-11 R1654 1-249-430-11 R1655 1-249-417-11		1/4W 1/4W 1/4W 1/4W 1/4W			ZB BOARD, C	OMPLETE	******	*****
R1656 1-249-417-11 R1657 1-249-436-11 R1658 1-249-437-11 R1659 1-249-437-11	CARBON 47K 5%	1/4W 1/4W 1/4W 1/4W		162-115-00		330PF	10%	2 KV
<re.< td=""><td>LAY></td><td></td><td>C1922 I-</td><td>162-115-00</td><td>CERAMIC</td><td>330PF</td><td>10%</td><td>· 2KV</td></re.<>	LAY>		C1922 I-	162-115-00	CERAMIC	330PF	10%	· 2KV

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REF.NO. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R1921 1-202-818-00 R1922 1-202-818-00 R1923 1-249-414-11 R1924 1-249-414-11	SOLID CARBON	1K 20% 1K 20% 560 5% 560 5%	1/2W 1/2W 1/4W 1/4W		C853 C854 C855 C856 C856	1-106-220-00 1-126-329-11 1-124-514-11 1-162-114-00 1-124-119-00 1-124-903-11	ELECT ELECT CERAMIC ELECT	0.1MF 470MF 100MF 0.0047MF 330MF 1MF	10% 20% 20% 20%	100V 50V 50V 2KV 16V 50V
	NECTOR>					<dio< td=""><td></td><td></td><td></td><td></td></dio<>				
ZB20 *1-691-292-11 ZB-3 *1-564-524-11	PLUG, CONNEC	TOR 9P			D802		DIODE ERD28- DIODE RU-1C DIODE RD5.1E			
*A-1390-351-A		PLETE	****	יים איניים א	D804 D805	8-719-911-19 8-719-911-19	DIODE 188119 DIODE 188119			
<caf< td=""><td>ACITOR></td><td></td><td></td><td></td><td>D806 D807 D808 D809</td><td>8-719-109-85 8-719-109-85 8-719-911-19 8-719-911-19</td><td>DIODE RD5.1E DIODE RD5.1E DIODE 1SS119 DIODE 1SS119</td><td>SB2</td><td></td><td></td></caf<>	ACITOR>				D806 D807 D808 D809	8-719-109-85 8-719-109-85 8-719-911-19 8-719-911-19	DIODE RD5.1E DIODE RD5.1E DIODE 1SS119 DIODE 1SS119	SB2		
C801 1-125-489-00 C802 1-123-024-21 C803 1-136-729-11	ELECT(BLOCK) ELECT FILM	560MF 33MF 1.5MP	20% 5%	200V 160V 400V	D810 D811	8-719-911-19 8-719-109-85	DIODE ISSII9			
C804 1-106-383-00 C805 1-102-030-00	MYLAR CERAMIC	0.047MF 330PF	10%	200V 500V	D812 D813 D814	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 188119 DIODE 188119 DIODE 188119			
C806 1-130-495-00 C807 1-123-875-11 C808 1-126-183-11 C809 1-124-903-11	MYLAR Elbct Elect Elect	0.1MF 10MF 1000MF 1MF	5% 20% 20% 20%	50V 50V 16V 50V	D815 D817 D818	8-719-110-36 8-719-945-80 8-719-911-19	DIODE RD13ES DIODE ERCO6- DIODE ISS119	-15S		
C810 1-124-903-11 C811 1-124-902-00	ELECT ELECT	1MF 0.47MF	20% 20%	50V 50V	D820 D850	8-719-911-19 8-719-109-71	DIODE 188119 DIODE RD3.9E 0:0BE V308	SB1		
C812 1-102-973-00 C813 1-102-244-00 C814 1-106-391-12 C815 1-106-367-00	CERAMIC CERAMIC MYLAR MYLAR	100PF 220PF 0.1MF 0.01MF	5% 10% 10% 10%	50V 500V 200V 200V	0891	8-719-911-19 8-719-903-99 8-719-110-49	olové Roises	5 6 2		
C816 1-124-907-11 C817 1-124-119-00 C818 1-102-824-00 C819 1-124-907-11 C820 1-124-907-11	BLECT BLECT CERAMIC BLECT BLECT	10MF 330MF 470PF 10MF 10MF	20% 20% 5% 20% 20%	50V 16V 50V 50V 50V		8-719-110-49 <ic> 8-759-231-58</ic>	IC TA7812S	582		
C821 1-124-907-11 C822 1-124-034-51 C823 1-124-907-11 C824 1-124-034-51 C825 1-124-034-51	ELECT ELECT ELECT ELECT ELECT	10MF 33MF 10MF 33MF 33MF	20% 20% 20% 20% 20%	50V 16V 50V 16V 16V		8-759-100-82 8-759-103-93 8-759-100-75	IC UPC4082C IC UPC393C IC UPC1394C			
C826 1-124-907-11 C827 1-124-907-11 C828 1-124-907-11 C829 1-124-034-51 C830 1-124-907-11	ELECT ELECT ELECT ELECT ELECT	10MF 10MF 10MF 33MF 10MF	20% 20% 20% 20% 20%	50V 50V 50V 16V 50V	L801 L802 L803 L804	<001 1-459-862-11 1-424-603-11 1-459-313-00 1-410-482-31	COIL, CHOKE COIL, CHOKE COIL WITH CO	1000H	usan addikadada	
C831 1-106-220-00 C832 1-124-907-11 C833 1-124-916-11 C834 1-102-121-00 C835 1-124-927-11	MYLAR ELECT ELECT CERAMIC ELECT	0.1MF 10MF 22MF 0.0022MF 4.7MF	10% 20% 20% 10% 20%	100V 50V 50V 50V 50V	N-1	1-506-348-XX	NNECTOR>	ror_3P_		
C836 1-130-475-00 C837 1-136-169-00 C838 1-130-475-00 C839 1-102-106-00 C840 8 1-136-807-11	MYLAR FILM MYLAR CERAMIC 8888	0.0022MF 0.22MF 0.0022MF 100PF	5% 5% 5% 10% 3%	50V 50V 50V 50V 1.6€¥	N-2 N-3 N-4 N-5	*1-564-508-11 *1-508-766-00 *1-564-507-11 *1-564-508-11 *1-508-786-00	PLUG, CONNEC' PIN, CONNEC' PLUG, CONNEC PLUG, CONNEC	TOR (5MM PIT CTOR 4P CTOR 5P		
C841 1-136-729-11 C842 1-130-471-00	FILM Mylar	1.5MF 0.001MF 0.1MF	5% 5% 10%	400V 50V 200V	N-7 N-8 N-9	*1-508-765-00 *1-508-766-00 1-506-348-XX *1-564-511-11	PIN, CONNEC PIN, CONNEC PIN, CONNEC PLUG, CONNE	TOR (5MM PIT TOR 3P		
C844 1-106-391-12 C850 1-136-169-00 C851 1-124-907-11	MYLAR FILM ELECT	0.1MF 0.22MF 10MF	5% 20%	50V 50V	N-10 N-20 N-21	*1-560-126-00 *1-560-123-00	PLUG, CONNE PLUG, CONNE	CTOR (2.5MM)) 6P) 3P	
C852 1-124-907-11	ELECT	10MF	20%	50 V	N~30	*1-508-784-00	PIN, CONNEC			



The components identified by in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation Should replacement be required, replace only with the value originally used

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,	the value originally used								
REF.NO. PART NO.		REMARK	REF.NO.	PART NO.	DESCRIPTION			REMAR	K
N-851 *1-506-371-00 N-853 *1-506-371-00	PIN, CONNECTOR 2P	9	R833 R834 R835	1-249-419-11 1-249-419-11 1-215-429-00	CARBON	1.5K 1.5K 2.2K	5% 5% 1%	1/4W 1/4W 1/4W	
<nec< td=""><td>N LAMP></td><td>1</td><td>R836</td><td>1-215-435-00</td><td>METAL</td><td>3.9K</td><td>1%</td><td>1/40</td><td></td></nec<>	N LAMP>	1	R836	1-215-435-00	METAL	3.9K	1%	1/40	
NL801 1-519-108-XX		i i i i	R837 R838 R839 R840	1-215-435-00 1-249-433-11 1-249-435-11 1-249-438-11 1-249-434-11	CARBON CARBON CARBON	22K 33K 56K 27K	1% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
	INSISTOR>		R841	1-249-429-11	CARBON	10K	5%	1/4W	
\$\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	TRANSISTOR 2SC2785-HPE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2688-LK SPACER, MICA; Q801 TRANSISTOR 2SC2688-LK SPACER, INSULATING; Q802 SCREW (M3X10), P, SW (+); Q802 TRANSISTOR 2SC1785-HFE TRANSISTOR 2SC2785-HFE		R842 R843 R844 R845	1-249-435-11 1-249-423-11 1-249-433-11 1-249-435-11	CARBON CARBON CARBON	33K 3.3K 22K 33K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
4-382-854-11	SCREW (M3X10), P, SW (+); Q802		R846 R847	1-249-429-11 1-214-761-00	CARBON METAL	10K 22K 2.2K	5% 1%	1/4W 1/4W	
Q803 8-729-119-76 Q804 8-729-119-78 Q805 8-729-119-78 Q806 8-729-119-80	TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC2688-LK		R848 R849 R850	1-215-429-00 1-215-421-00 1-215-429-00	METAL	1 K 2.2 K	1%	1/4W 1/4W 1/4W	
Q807 8-729-119-78	TRANSISTOR 2SC2785-HFE		8851 ₩852%	1-215-404-00	METAL METAL	200	1%	1/4W 1/4&	Š
9808 8-729-119-78 9809 8-729-119-76 9881 488-829-805-98 4-382-854-11	SCBBB (M3810/ D CH (+) + U011			1-215-469-00 1-249-430-11 1-215-469-00	METAL CARBON METAL	100K 12K 100K	12	1/4W 1/4W 1/4W	
Q812 8-729-804-48	TRANSISTOR 2SC3675-CB		R856 R857	1-249-430-11	CARBON CARBON CARBON	12K 22K	5% 5%	1/4W 1/4W	
Q820 8-729-119-76 Q851 8-729-119-78	TRANSISTOR 2SA1175-HFE TRANSISTOR 2SC2785-HFE		R858 R859	1-249-435-11	CARBON	470 33K	5% 5% 5% 5%	1/4W 1/4W	
Q852 8-729-119-78	TRANSISTOR 2SC2785-HFE TRANSISTOR 2SC4256CB		R860	1-249-441-11	CARBON	100K	5%	1/4W	
<re:< td=""><td>SISTOR></td><td></td><td>R862 R863 R864</td><td>1-249-421-11 1-249-434-11 1-249-431-11 1-249-423-11</td><td>CARBON CARBON CARBON</td><td>2.2K 27K 15K 3.3K</td><td>5%%%%% 555555</td><td>1/4W 1/4W 1/4W 1/4W</td><td></td></re:<>	SISTOR>		R862 R863 R864	1-249-421-11 1-249-434-11 1-249-431-11 1-249-423-11	CARBON CARBON CARBON	2.2K 27K 15K 3.3K	5%%%%% 555555	1/4W 1/4W 1/4W 1/4W	
P& 1 2 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	#FT#L 0#100 5.5 31 2# #FT#L 0#105 334 53 3#	.	R865	1-249-440-11		82K		1/4W	
R804 1-249-429-11 R805 1-249-423-11	#ETAL IXIES 33% 53 3% METAL IXIES 33% 52 3% CARBUN 10K 5% 1/4W CARBON 3.3K 5% 1/4W	ŗ.	R866 R867 R868 R869	1-249-436-11 1-249-437-11 1-249-428-11 1-249-429-11	CARBON CARBON	39K 47K 8.2K 10K	5%%%%% 5555555555555555555555555555555	1/4W 1/4W 1/4W 1/4W	
R806 1-249-425-11 R807 1-249-441-11	CARBON 4.7K 5% 1/4W CARBON 100K 5% 1/4W		R870	1-249-417-11	CARBON	1K		1/4W	
R808 1-249-417-11 R809 1-249-417-11	CARBON 4.7K 5% 1/4W CARBON 100K 5% 1/4W CARBON 1K 5% 1/4W CARBON 1K 5% 1/4W CARBON 100K 5% 1/4W		R871 R872	1-249-440-11 1-249-423-11	CARBON CARBON	82K 3.3K 100K 33K	5% 5%	1/4W 1/4W	
R810 1-249-441-11	CARBON 100K 5% 1/4W		R873	1-249-441-11 1-249-435-11	CARBON	100K 33K	5% 5%	1/4W 1/4W	
R811 1-249-421-11 R812 1-249-420-11	CARBON 2.2K 5% 1/4W CARBON 1.8K 5% 1/4W	F	R875	1-249-421-11	CARBON	2.2K	5%	1/4W	
8813 + 1-215-921-91 8814 1-249-409-11	CARBON 220 5% 1/4W	?	R876 R877	1-215-426-00 1-249-435-11	METAL Carbon	1.6K 33K	1% 5% 5%	1/4W 1/4W	
R815 1-249-415-11	CARBON 680 5% 1/4W		R878	1-249-441-11 1-216-489-91	CARBON METAL CXIDE	100K 27%	5% 5% 5%	1/4W 3¥ ¥	888
R816 1-214-777-00 R817 1-215-471-00	METAL 100K 1% 1/4W METAL 120K 1% 1/4W		R880	1-249-429-11	CARBON	10K		1/4W	
R818 1-215-471-00 R819 1-215-450-00	METAL 120K 1% 1/4W METAL 16K 1% 1/4W		R881 R882	1-214-761-00 1-249-433-11	METAL Carbon	22K 22K	1% 5%	1/4W 1/4W	
R820 1-215-451-00				1-249-417-11 3-215-894-91	CARBON METAL DESDE	1X 2,28	5% 5%	1/4¥ 2* *	*
R821 1-249-423-11 R822 1-249-433-11	CARBON 22K 5% 1/4W		R885	1-249 438:11	CARBON	56K		1/4W	
R823 1-249-429-11 R824 1-215-469-00			R886 R887	1-249-414-11 1-215-397-00	CARBON METAL	560 100	5% 1%	1/4W 1/4W	
R825 1-215-453-00			R888	1-249-410-11 1-249-417-11	CARBON CARBON	270 1K	5% 5%	1/4W 1/4W	
R826 1-214-962-00 R827 1-214-764-00	METAL 820K 1% 1/4W METAL 30K 1% 1/4W		R890	1-249-417-11	CARBON	1 K	5% ⊑%	1/4₩ 3₩ ₽	6.68
R828 1-215-455-00 R829 1-215-455-00	METAL 27K 1% 1/4W	.co 整 4 . 2 4 3 6 2 ·	1892 1893	* 1-216-489-81 1-249-417-11 1-215-453-00	₩ETA: GXIDE CARBON METAL	27% 1 K 22 K	5% 5% 1%	1/4W F 1/4W	0.60
8830 * 1-215-928-91		F.	R894 R895	1-249-401-11 1-202-731-00	CARBON SOLID	47 10M	5% 20%	1/4W 1/2W	
8881 * 1-215-928-93 8832 - 1-249-417-11		######################################	1 11077	1-202-131-00	OULIV	TON	40 k	1/47	

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REF.NO. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTIO	N -			REMARK
R896 1-260-111-11 R897 1-247-881-00 R898 1-202-730-00 R899 1-249-429-11 R903 1-247-735-11	CARBON	10K 5% 120K 5% 8.2M 20% 10K 5% 47 20%	1/2W 1/4W 1/2W 1/4W 1/2W		CM1002	<fil<sup>1</fil<sup>	TER BLOCK>	Filter ((CFB-4)		
8904 + 1-215-928 8905 + 1-215-911	METAL CXIDE METAL CXIDE	688 5% 160 5%	3W 3W	• •	D100F	<010		cno			
<sp#< td=""><td>RK GAP> GAP, SPARK</td><td></td><td></td><td></td><td>D1009 D1010 D1011</td><td>8-719-110-36 8-719-110-36 8-719-110-36 8-719-110-36 8-719-110-36</td><td>DIODE RD13E DIODE RD13E DIODE RD13E DIODE RD13E</td><td>SB2 SB2 SB2</td><td></td><td></td><td></td></sp#<>	RK GAP> GAP, SPARK				D1009 D1010 D1011	8-719-110-36 8-719-110-36 8-719-110-36 8-719-110-36 8-719-110-36	DIODE RD13E DIODE RD13E DIODE RD13E DIODE RD13E	SB2 SB2 SB2			
T801 & \$37-078-11 T802 1-437-090-00						8-719-110-36 8-719-110-36 8-719-110-36 8-719-110-36 8-719-109-66	DIODE RD13E DIODE RD13E DIODE RD13E DIODE RD13E DIODE RD3.3	SB2 SB2 SB2			
T803 &.1-453-121-11					D1021 D1022	8-719-109-66 8-719-109-66	DIODE RD3.3 DIODE RD3.3	ESB2 ESB2			
*A-1394-420-A	U BOARD, COM	PLETE ****				C					
<caf< td=""><td>ACITOR></td><td></td><td></td><td></td><td></td><td>8-752-056-50 8-759-145-57</td><td></td><td></td><td></td><td></td><td></td></caf<>	ACITOR>					8-752-056-50 8-759-145-57					
C1004 1-102-125-00 C1005 1-126-301-11 C1006 1-164-096-11 C1007 1-124-598-11 C1008 1-124-598-11	CERAMIC ELECT CERAMIC ELECT ELECT	0.0047MF 1MF 0.01MF 22MF 22MF	10% 20% 20% 20%	50V 50V 50V 25V 25V		<01 1-408-422-00 1-408-422-00	INQUETOR	120UI 120UI			
C1010 1-124-465-00 C1011 1-124-465-00 C1012 1-124-465-00	ELECT ELECT ELECT CERAMIC	0.47MF 0.47MF 0.47MF 0.0047MF	20% 20% 20% 10%	50V 50V 50V 50V	01000		NSISTOR>	2562788-	วาแ		
C1013 1-102-125-00 C1014 1-126-163-11 C1016 1-126-163-11 C1018 1-126-301-11	ELECT ELECT ELECT	4.7MF 4.7MF	20% 20% 20%	50V 50V 50V	Q1010 Q1016	8-729-119-76 8-729-119-76 8-729-119-76 8-729-141-26	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	2SC2785-1 2SA1175-1 2SA1175-1	ife ife ife		
C1020 1-124-242-00 C1021 1-124-465-00 C1022 1-124-242-00	ELECT ELECT ELECT	33MF 0.47MF 33MF	20% 20% 20%	25V 50V 25V	Q1019 Q1020 Q1021	8-729-119-76 8-729-119-76 8-729-119-76	TRANSISTOR TRANSISTOR TRANSISTOR	2SA1175-	HFE		
C1026 1-102-949-00 C1027 1-102-949-00 C1028 1-124-242-00 C1029 1-124-282-00	CERAMIC CERAMIC ELECT ELECT	12PF 12PF 33MF 22MF	5% 5% 20% 20%	50V 50V 25V 16V	Q1022 Q1023	8-729-141-26 8-729-119-78 8-729-119-76	TRANSISTOR TRANSISTOR TRANSISTOR	2SC3622A- 2SC2785-	-LK HFE		
C1030 1-124-478-11 C1031 1-102-963-00	ELECT CERAMIC	100MF 33PF	20% 5%	25V 50V	Q1030 Q1031 Q1032	8-729-119-78 8-729-119-78 8-729-119-76	TRANSISTOR TRANSISTOR TRANSISTOR	2SC2785- 2SC2785- 2SA1175-	HFE HFE HFE		
C1033 1-124-598-11 C1034 1-124-282-00 C1036 1-124-282-00 C1037 1-124-282-00	BLBCT BLBCT BLBCT BLBCT	22MF 22MF 22MF 22MF	20% 20% 20% 20%	25V 16V 16V 16V	Q1033 Q1034	8-729-119-76 8-729-119-76	TRANSISTOR TRANSISTOR				
C1039 1-124-478-11 C1047 1-124-465-00	ELECT ELECT	100MF 0.47MF	20% 20%	25V 50V			SISTOR>		d.		
C1048 1-126-301-11 C1049 1-124-598-11 C1051 1-124-465-00	ELECT ELECT ELECT	1MF 22MF 0.47MF	20% 20% 20%	50V 25V 50V	R1011 R1012 R1013 R1014	1-249-435-11 1-249-434-11 1-249-417-11 1-249-441-11	CARBON CARBON CARBON CARBON	33K 27K 1K 100K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W	
C1055 1-124-589-11 C1056 1-124-499-11 C1057 1-124-768-11 C1059 1-124-499-11 C1060 1-124-499-11	ELECT ELECT ELECT ELECT ELECT	47MF 1MF 4.7MF 1MF 1MF	20% 20% 20% 20% 20%	16V 50V 50V 50V 50V	R1015 R1016 R1017 R1018	1-249-441-11 1-249-405-11 1-249-427-11	CARBON CARBON CARBON CARBON	4.7K 100K 100 6.8K	5% 5%	1/4W 1/4W 1/4W 1/4W	
C1061 1-124-499-11 C1062 1-102-129-00	ELECT CERAMIC	1MF 0.01MF	20% 10%	50V 50V	R1019 R1023	1-249-427-11 1-249-405-11	CARBON Carbon	6.8K 100	5% 5%	1/4W 1/4W	
C1063 1-124-768-11 C1066 1-126-101-11	ELECT ELECT	4.7MF 100MF	20% 20%	50V 16V	R1026 R1028 R1029	1-249-425-11 1-249-434-11 1-249-435-11	CARBON CARBON CARBON	4.7K 27K 33K	5% 5% 5%	1/4W 1/4W 1/4W	





REF.NO. PART NO.	DESCRIPTION				REMARK	REF.NO. PART NO. DESCRIPTION	REMARK
R1030 1-249-417-11 R1032 1-249-417-11 R1033 1-249-393-11 R1034 1-249-417-11 R1036 1-247-883-00	CARBON CARBON CARBON	1 K 1 K 1 O 1 K 1 5 O K	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W	F	U-23 *1-566-367-11 CONNECTOR, HINGE (RECEPTACLE) U-47 *1-564-506-11 PLUG, CONNECTOR 3P ************************************	******
R1037 1-247-883-00 R1038 1-247-883-00 R1043 1-249-417-11 R1046 1-249-413-11 R1048 1-249-405-11	CARBON	150K 150K 1K 470 100	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		*A-1394-421-A S BOARD, COMPLETE ***********************************	
R1050 1-249-405-11 R1051 1-249-417-11 R1052 1-249-413-11 R1054 1-249-405-11 R1055 1-249-413-11	CARBON CARBON CARBON	100 1K 470 100 470	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C3408	50V 50V 16V 16V
R1056 1-249-405-11 R1057 1-249-441-11 R1059 1-249-405-11 R1061 1-249-409-11 R1062 1-249-441-11	CARBON CARBON CARBON	100 100K 100 220 100K	5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C3442 1-164-161-11 CERAMIC CHIP 0.0022MF 10% C3446 1-163-129-00 CERAMIC CHIP 330PF 5% C3447 1-163-117-00 CERAMIC CHIP 100PF 5%	50V 50V 50V 50V 50V
R1063 1-249-409-11 R1066 1-215-437-00 R1067 1-215-437-00 R1068 1-215-437-00 R1069 1-215-437-00	METAL METAL METAL	220 4.7K 4.7K 4.7K 4.7K	5% 1% 1% 1% 1%	1/4W 1/4W 1/4W 1/4W 1/4W		C3450 1-163-109-00 CERAMIC CHIP 47PF 5% C3451 1-164-004-11 CERAMIC CHIP 0.1MF 10%	50v 25v 25v 16v 50v
R1070 1-249-411-11 R1071 1-249-431-11 R1073 1-249-431-11 R1077 1-249-418-11 R1078 1-249-418-11	CARBON CARBON CARBON	330 15K 15K 1.2K 1.2K	5% 5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C3455 1-126-163-11 BLECT 4.7MF 20% C3456 1-163-129-00 CERAMIC CHIP 330PF 5% C3457 1-163-117-00 CERAMIC CHIP 100PF 5% C3459 1-124-477-11 ELECT 47MF 20% C3460 1-163-099-00 CERAMIC CHIP 18PF 5%	16V 50V 50V 16V 50V
R1079 1-249-405-11 R1080 1-215-423-00 R1081 1-215-421-00 R1089 1-249-405-11 R1094 1-249-405-11	METAL METAL CARBON	100 1.2K 1K 100 100	5% 1% 1% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C3507 1-164-232-11 CERAMIC CHIP 0.01MF 10% C3508 1-164-005-11 CERAMIC CHIP 0.47MF C3509 1-163-139-00 CERAMIC CHIP 820PF 5% C3515 1-163-121-00 CERAMIC CHIP 150PF 5%	50V 50V 25V 50V 50V
R1096 1-249-405-11 R1099 1-249-413-11 R1110 1-249-405-11 R1116 1-249-441-11 R1118 1-249-413-11	CARBON CARBON CARBON	100 470 100 100K 470	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		C3540 1-126-157-11 ELECT 10MF 20% <diode> D3444 8-719-404-46 DIODE MA110</diode>	16 V
R1120 1-249-413-11 R1121 1-249-441-11 R1122 1-249-413-11 R1133 1-249-405-11 R1134 1-249-405-11	CARBON CARBON CARBON	470 100K 470 100 100	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		<1C> 1C3401 8-759-403-44 1C MN1280-S 1C3402 8-759-070-42 1C M37201M6-A18FP	
R1137	CARBON CARBON CARBON	330 680 470 470 470	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		1C3441 8-759-081-30 1C MC78L05ACPRP 1C3442 8-759-084-12 IC L67945 1C3443 8-759-158-03 IC L67458A-02 IC3444 8-759-403-44 IC MN1280-S	
R1142 1-249-415-11 R1147 1-249-405-11 R1148 1-249-405-11 R1149 1-249-417-11 R1150 1-249-405-11	CARBON CARBON CARBON	680 100 100 1K 100	5% 5% 5% 5%	1/4W 1/4W 1/4W 1/4W 1/4W		COIL> L3401 1-408-421-00 INDUCTOR 100UH L3461 1-408-409-00 INDUCTOR 10UH	
R1151 1-249-405-11 R1152 1-249-417-11		100 1K	5% 5%	1/4W 1/4W		L3462 1-408-421-00 INDUCTOR 100UH <transistor></transistor>	
<00	INNECTOR>					Q3441 8-729-422-27 TRANSISTOR 2SD601A-Q Q3444 8-729-903-10 TRANSISTOR FMW1	
U-12 1-573-300-11 U-13 1-573-300-11 U-16 *1-564-513-11 U-22 1-566-942-11	CONNECTOR, B PLUG, CONNEC	DARD TO TOR 101) BOAR P	D 18P	0P		





REF.NO. PART NO.		DESCR	IPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION	[REMARK
	<resis< td=""><td>STOR></td><td></td><td></td><td></td><td></td><td></td><td>i ! ! !</td><td>*A-1394-432-A</td><td>UT BOARD, CO</td><td>MPLETE</td><td></td><td></td><td></td></resis<>	STOR>						i ! ! !	*A-1394-432-A	UT BOARD, CO	MPLETE			
R3401 1-216-04 R3402 1-216-04	19-00	METAL	GLAZE GLAZE	1K 1K	5% 5%	1/10W 1/10W 1/10W				********	*****			
R3403 1-216-07 R3404 1-216-03 R3405 1-216-05	33-00	METAL METAL METAL	GLAZE GLAZE GLAZE	1K 1K 10K 220 2.2K	5% 5% 5%	1/10W 1/10W 1/10W		! ! !	<cai< td=""><td>ACITOR></td><td></td><td></td><td></td><td></td></cai<>	ACITOR>				
R3406 1-216-06	55-00	METAL				1/10W		(:1154	1~164~096~11	CERAMIC	0.001MF 0.01MF		10%	50V 50V
R3407 1-216-03 R3408 1-216-06 R3409 1-216-03	65-00	METAL METAL METAL	GLAZE GLAZE	4.7K 220 4.7K 220 100	5% 5% 5%	1/10W 1/10W 1/10W		C1158	1-126-103-11 1-124-598-11 1-124-598-11	ELECT	470MF 22MF 22MF		20% 20% 20%	16V 25V 25V
R3441 1-216-02	25-00	METAL				1/10W		i					20%	25V
R3442 1-216-04 R3443 1-216-04	41-00	METAL	GLAZE	470 470	5% 5%	1/10W 1/10W 1/10W		C1164 C1165	1-124-598-11 1-126-103-11 1-126-301-11 1-126-301-11 1-126-301-11	ELECT ELECT	470MF 1MF 1MF		20% 20% 20%	16V 50V 50V
R3444 1-216-07 R3445 1-216-68 R3446 1-216-08	89-11 85-00	METAL METAL METAL	GLAZE	15K 39K 33K	5% 5% 5% 5% 5%	1/10W 1/10W		1					20%	50 V
R3449 1-216-07	73-00	METAL	GLAZE	10K 2.2K		1/10W 1/10W		C1168 C1199	1-126-301-11 1-102-129-00 1-102-129-00	ELECT CERAMIC	1MF 0.01MF		20% 10% 10%	50V 50V 50V
R3450 1-216-05 R3451 1-216-05 R3452 1-216-07	93-00	METAL METAL METAL	GLAZE GLAZE	68K 18K	5% 5% 5%	1/10W 1/10W		C1200	1-102-129-00	CERAMIC	U.UIMT		10%	704
R3453 1-216-67	79-11	METAL	CHIP	15K	0.50%	1/10W				ODE>				
R3454 1-216-04 R3455 1-216-05 R3456 1-216-05	57-00		GLAZE GLAZE	1K 2.2K	5% 5%	1/10W 1/10W 1/10W		D1152	8-719-110-36 8-719-110-36	DIODE RD13E	SB2 SB2			
R3456 1-216-07 R3463 1-216-07 R3464 1-216-07	73 -00	METAL	GLAZE GLAZE	1K 2.2K 15K 10K 10K	5% 5%	1/10W 1/10W		D1160	8-719-110-36 8-719-110-36 8-719-110-36 8-719-110-36	DIODE RD13E	SB2 SB2 SB2			
R3465 1-216-07	73-00	METAL	GLAZE			1/10W		D1164	8-719-110-36	DIODE RD13E	SB2			
R3472 1-216-09 R3473 1-216-09 R3474 1-216-29	25-00	METAL	GLAZE GLAZE GLAZE	10K 56K 100 0 2.2K	5% 5% 5%	1/10W 1/10W 1/10W		1 01166	8-719-110-36 8-719-110-36 8-719-110-36	DIODE RD13E	SB2			
R3504 1-216-0!		METAL	GLAZE			1/10W		1	8-719-110-36 8-719-110-36					
R3509 1-216-04 R3511 1-216-02 R3512 1-216-09	49-00 25-00	METAL	GLAZE GLAZE GLAZE	1K 100	5% 5%	1/10W 1/10W 1/10W		D1169 D1170	8-719-110-36 8-719-110-36	DIODE RD13E DIODE RD13E	SB2 SB2			
R3513 1-216-09 R3514 1-216-09	59-00	METAL	GLAZE GLAZE	1K 100 2.7K 2.7K 2.7K	5% 5%	1/10W 1/10W			< J A	CK>				
R3519 1-216-0	49-00	METAL		1 K		1/10W 1/10W		J1001	1-537-187-11	TERMINAL, P	USH (4P)			
R3520 1-216-0- R3521 1-216-0- R3525 1-216-2-	49-00	METAL	GLAZE GLAZE GLAZE	1 K 1 K 0	5% 5% 5% 5%	1/10W 1/10W		J1003 J1004	1-537-187-11 1-573-970-11 1-695-049-11 1-695-054-11	BLOCK, (S) BLOCK, (S) JACK BLOCK.	TERMINAL			
R3526 1-216-0	73-00	METAL	GLAZE	10K		1/10W		1 11000	1-5/3-9/0-11	BLUCK, (5)	IERMINAL			
R3528 1-216-2 R3529 1-216-2 R3530 1-216-0	95-00	METAL	GLAZE GLAZE GLAZE	0 0 10K	5% 5% 5%	1/10W 1/10W 1/10W		J1007 J1008	1-573-969-11 1-573-969-11	JACK BLUCK,	PIN			
R3531 1-216-0 R3532 1-216-0	73-00	METAL	GLAZE GLAZE	10K 10K 10K	5% 5%	1/10W 1/10W			<ri< td=""><td>SISTOR></td><td></td><td></td><td></td><td></td></ri<>	SISTOR>				
R3535 1-216-0 R3537 1-216-2			GLAZE GLAZE	220 0	5% 5%	1/10W 1/10W			1-249-403-1		68 470K	5% 5%	1/4W 1/4W	
R3537 1-216-2 R3540 1-216-0	73-00			10K	5%	1/10W		R1164 R1165 R1166	1-247-895-00	CARBON	470K 470K	5% 5% 5%	1/4W 1/4W	
	<con< td=""><td>NECTOR</td><td>></td><td></td><td></td><td></td><td></td><td>R1167</td><td>1-247-895-0</td><td>CARBON</td><td>470K</td><td></td><td>1/40</td><td></td></con<>	NECTOR	>					R1167	1-247-895-0	CARBON	470K		1/40	
S-42 *1-568-3 S-43 *1-564-5			CONNECTO					R1168 R1169 R1170	1-249-403-1	CARBON	470K 68 68	5% 5%	1/4W 1/4W 1/4W	
S-45 *1-564-5 S-47 *1-564-5	511-71 506-11	PLUG, PLUG,	CONNEC'	FOR 8P				R1171	1-247-895-0) CARBON	470K 470K	5% 5%	1/4W 1/4W	
S-46 *1-564-5	506-11	PLUG,	CONNECT	ror 3P				R1173	1-247-804-1	CARBON	75	5% 5%	1/4W 1/4W	
	<cry< td=""><td>STAL></td><td></td><td></td><td></td><td></td><td></td><td>R1174 R1175 R1176</td><td>1-247-895-0</td><td>O CARBON</td><td>470K 470K 75</td><td>5% 5%</td><td>1/4W 1/4W 1/4W</td><td>1</td></cry<>	STAL>						R1174 R1175 R1176	1-247-895-0	O CARBON	470K 470K 75	5% 5%	1/4W 1/4W 1/4W	1
X3401 1-577-3 X3441 1-577-3	358-21 364-11	VIBRA VIBRA	ATOR, CEI ATOR, CEI	RAMIC RAMIC				R1178	1-247-895-0	O CARBON	470K	5%	1/44)
*********	*****	****	******	*****	*****	*****	******	1 101100	1-247-804-1	1 CARBON	470K 75 75	5% 5% 5%	1/4W 1/4W 1/4W) `
								' R1181 R1183			470K	5%	1/4	

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The components identified by M in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation Should replacement be required, replace only with the value originally used

Les composants identifies par une trame et une marque A sont critiques pour la securite Ne les remplacer que par une piece portant le numero specifie The components identified by shading and mark A are critical for safety
Replace only with part number specified

DAD NO DIDE NO	the value original DESCRIPTION	y used		
REF.NO. PART NO.	DESCRIPTION		REMARK	RE
R1184 1-247-895-00 R1185 1-247-895-00 R1186 1-247-895-00 R1188 1-247-804-1 R1191 1-249-425-1	O CARBON O CARBON I CARBON	470K 5% 470K 5% 470K 5% 75 5% 4.7K 5%	1/4W 1/4W 1/4W 1/4W 1/4W	
R1192 1-249-425-1 R1193 1-249-425-1 R1194 1-249-425-1 R1196 1-249-429-1	I CARBON I CARBON	4.7K 5% 4.7K 5% 4.7K 5% 10K 5%	1/4W 1/4W 1/4W 1/4W	
<s'< th=""><th>WITCH></th><th></th><th></th><th></th></s'<>	WITCH>			
S1150 1-572-198-1	1 SWITCH, KEYB	OARD		
<c< th=""><th>ONNECTOR></th><th></th><th></th><th></th></c<>	ONNECTOR>			
UT11 *1-564-519-1 UT22 *1-566-941-1 UT23 *1-566-641-1 UT35 *1-564-518-1	1 CONNECTOR, H 1 CONNECTOR, H 1 PLUG, CONNEC	INGE (TAB) 3 INGE (TAB) 1 TOR 3P		
	**************************************	******	*******	
# [-24]-744 [-4]7-[78-] # [-45]-396-2 # [-452-443-] # [-453-188-]	I SELECTIR, AN	TENNA (AS-2) AKS (YAKASA)	AGE) (RA367)	
1-544-768-1 *1-555-400-0 *1-557-056-3 1-559-865-4 1-574-590-3	O CABLE, PÎN 1 CABLE, P-P 1 LEAD ASSY, H 1 LEAD ASSY, H	IGH-VOLTAGE IGH-VOLTAGE	16/53V15/53V16)	
H6	2 (URB) OWER RES, WOTAL P RES, WETAL P RES, WETAL P	11. X	ELTER 1/4¥ 1/4¥ 1/4¥	
2001 A. 8-736-633-0 A. 8-736-641-0	(X0-46V)*	(US/CND)/46) 07#K2(R) (S	(16/53815/53816)	
¥902 A.8-736-634-6 A.8-736-634-6	(87-464) 5 PICTURE TURE	(US/(ND)/46) (CTMK3(C)((16/53¥15/53¥16)	
¥903 A. 8-736-632-0 A. 8-736-640-0	5 7 (T) 8 T) 8 5 7 (T) 8 T) 8	US/(%0)/46 O7MX2(6) (/16/53715/53716)	
	**************************************	NG MATERIALS	š	*
*3-704-356-0	1 SHEET (STAN		CTION P-46V15(US/CND))	-
3-756-987-2 3-756-987-3	1 MANUAL, INST 1 MANUAL, INST	RUCTION (ENC PRUCTION (FRI	GLISH)	
3-756-987-4 *4-030-895-0	(KP-46V15(US)/	TRUCTION (SPA 16V16/53V15/	ANISH) 53V16/61V15(US))	

.NO. PART NO.	DESCRIPTION	REMARK
*4-037-126-01	INDIVIDUAL CARTON (KP-	46V15(US/CND)/46V16)
*4-037-127-01 *4-037-128-01 *4-037-129-01	CUSHION (LOWER) (AS	SY) 46V15(US/CND)/46V16)
*4-037-165-01 *4-037-166-01 *4-037-167-01 *4-037-168-01 *4-037-328-01	INDIVIDUAL CARTON (I TRAY (KP-53V15/53VII CUSHION (UPPER) (AS: CUSHION (LOWER) (AS: PLATE, TOP (KP-53VII	6) SY) (KP-53V15/53V16) SY) (KP-53V15/53V16)
*4-037-674-01 *4-037-918-01 *4-038-043-01 *4-388-954-01 *4-395-902-01	PLATE, TOP (KP-46VI' PLATE, BOTTOM (KP-4 PLATE, BOTTOM (KP-5 BAG, PROTECTION (KP- BAG, PROTECTION (KP-	6V15(US/CND)/46V16) 3V15/53V16)
*4-040-108-01 *4-040-109-01 *4-040-110-01 *4-040-111-01 *4-040-112-01	CUSHION (UPPER) (ASS CUSHION (LOWER) (ASS TRAY (KP-61V15(US/C PLATE, TOP (KP-61V1 PLATE, BOTTOM (KP-6	5(US/CND))
*4-040-117-01 *4-040-535-01	INDIVIDUAL CARTON (BAG, POLYETHYLENE (KP-61V15(US/CND)) KP-61V15(US/CND))

REMOTE COMMANDER

1-467-125-11	REMOTE COMMANDER (RM-Y115)
9-902-719-01	COVER (FOR RM-Y115)
9-998-214-01	COVER, BATTERY (FOR RM-Y115)